KARIN J. IMMERGUT (OSB No. 96314) United States Attorney District of Oregon JIM SUTHERLAND (OSB No. 68160) jim.sutherland@usdoj.gov Assistant United States Attorney 1000 S.W. Third Avenue, Suite 600 Portland, OR 97204-2902 (503) 727-1194 (tel) / (503) 727-1117 (fax)

RONALD J. TENPAS Assistant Attorney General MARK A. NITCZYNSKI (CSB 20687) mark.nitczynski@usdoj.gov U.S. Department of Justice/ENRD 1961 Stout Street - 8th Floor Denver, CO 80294 (303) 844-1498 (tel)/(303) 844-1350 (fax) MEREDITH L. FLAX (DCB 468016) meredith.flax@usdoj.gov U.S. Department of Justice Environment & Natural Resources Division Wildlife & Marine Resources Section Ben Franklin Station, P.O. Box 7369 Washington, D.C. 20044-7369 (202) 305-0404 (tel) / (202) 305-0275 (fax)

Attorneys for Federal Defendants

UNITED STATES DISTRICT COURT

DISTRICT OF OREGON

NORTHWEST ENVIRONMENTAL ADVOCATES, a non-profit corporation,

Civ. No. 05-1876-HA

Plaintiff,

v.

UNITED STATES' NOTICE OF FILING NATIONAL MARINE FISHERIES SERVICE'S SECOND AMENDED ADMINISTRATIVE RECORD AND **INDEX**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, NATIONAL MARINE FISHERIES SERVICE, and UNITED STATES FISH AND WILDLIFE SERVICE,

	lants.

Notice is hereby provided to the Court and the parties that the United States is hereby filing the National Marine Fisheries Service's ("NMFS") certified index of its Second Amended Administrative Record ("NMFS' Record"), in accordance with the Court's Order of January 7, 2008. See Docket No. 134. The certification and index are attached hereto as Attachment A. $^{1/2}$

Pursuant to Local Civil Rule 100.4(f), NMFS' Record will not be filed using the Court's Electronic Case Filing system. Accordingly, notice also is provided that, by the middle of the week of March 24, 2008, NMFS' Record will be sent on CD-ROM to the Court for filing. A copy of the CD-ROM will be mailed at that time to counsel identified on the Certificate of

UNITED STATES' NOTICE OF FILING NMFS' SECOND AMENDED ADMIN. RECORD

The United States also is submitting herewith a log of the documents that were excluded from NMFS' Record. The log is attached hereto as Attachment B. The United States expressly reserves all defenses to any assertion that any documents listed on the log should be included in NMFS' Record.

Service.2/

Respectfully submitted,

RONALD J. TENPAS Acting Assistant Attorney General Environment & Natural Resources Division

/s/ Mark A. Nitczynski
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Attorneys for United States of America

Dated: March 21, 2008

NMFS' Record includes the documents previously provided to the Court and parties in support of NMFS' February 24, 2004, Biological Opinion as well as materials added in response to the Court's January 7, 2008 Order. Accordingly, NMFS' Record supersedes the Amended Administrative Record filed by NMFS on November 9, 2006. See Docket No. 46. The documents contained in NMFS' Record that underlie the development of the EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards ("Temperature Guidance") are intended to supplement the Temperature Guidance documents included in the records provided by the U.S. Environmental Protection Agency and U.S. Fish and Wildlife Service. NMFS' Record also includes certain deliberative materials that NMFS did not previously consider to be part of its administrative record and a small number of supplemental documents that NMFS recently located.

CERTIFICATE OF SERVICE

I hereby certify that on March 21, 2008, I caused a true copy of the foregoing FEDERAL DEFENDANTS' NOTICE OF FILING NATIONAL MARINE FISHERIES SERVICE'S SECOND AMENDED ADMINISTRATIVE RECORD AND INDEX (with attachments) to be served on each of the following counsel in the manner indicated below:

Melissa Powers PACIFIC ENVIRONMENTAL ADVOCACY CENTER 10015 S.W. Terwilliger Blvd. Portland, OR 97219 powers@clark.edu	 [] Via Hand Delivery [] Via E-mail [] Via First-Class mail, postage pre-paid [] Via Overnight Mail [X] Court notice of electronic filing via CM/ECF
Alison LaPlante PACIFIC ENVIRONMENTAL ADVOCACY CENTER 10015 S.W. Terwilliger Blvd. Portland, OR 97219 laplante@clark.edu	 [] Via Hand Delivery [] Via E-mail [] Via First-Class mail, postage pre-paid [] Via Overnight Mail [X] Court notice of electronic filing via CM/ECF
Karen Moynahan Oregon Department of Justice 1162 Court St., NE Salem, OR 97301-4096 karen.moynahan@doj.state.or.us	 [] Via Hand Delivery [] Via E-mail [] Via First-Class mail, postage pre-paid [] Via Overnight Mail [X] Court notice of electronic filing via CM/ECF
Laura Maffei, R.G. Attorney at Law Schwabe Williamson & Wyatt 1211 SW 5 th Ave., Suites 1600-1900 Portland, OR 97204 Lmaffei@SCHWABE.com	 [] Via Hand Delivery [] Via E-mail [] Via First-Class mail, postage pre-paid [] Via Overnight Mail [X] Court notice of electronic filing via CM/ECF
	/s/ Mark A. Nitczynski

MARK A. NITCŽYNSKI

UNITED STATES' NOTICE OF FILING NMFS' SECOND AMENDED ADMIN. RECORD

ATTACHMENT A

U.S. DEPARTMENT OF COMMERCE

Form CD-64 (Revised) Prescribed by DAO 201.17

Portland, Oregon March 21, 2008

I HEREBY CERTIFY that the annexed is a true copy of the second amended administrative record, prepared in accordance with the Court's Order of January 7, 2008, for the Biological Opinion on EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods (February 23, 2004), on file in the Oregon State Habitat Office of the Habitat Conservation Division, National Marine Fisheries Service, 1201 N.E. Lloyd Boulevard, Suite 1100, Portland, OR 97232.

Kim Kratz

Acting State Director
Oregon State Habitat Office
Habitat Conservation Division
National Marine Fisheries Service,
Northwest Region

I HEREBY CERTIFY that Kim Kratz, who signed the foregoing certificate, is now and was at the time of signing, a custodian of records, National Marine Fisheries Service, Northwest Region, Habitat Conservation Division, Oregon State Habitat Office, Portland, Oregon, and that full faith and credit should be given to his certificate as such.

IN WITNESS WHEREOF, I have hereunto subscribed my name, and caused the seal of the Department of Commerce to be affixed this 21st day of March two thousand eight.

For the SECRETARY OF COMMERCE:

DR. GELL

Certifying Officer

D. Robert Lohn Regional Administrator National Marine Fisheries Service, Northwest Region

SEAL

USCOMM-DC 1359-P71

ADMINISTRATIVE RECORD INDEX

For National Marine Fisheries Service's February 24, 2004, Biological Opinion on EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen and Antidegradation Implementation Methods, Including Index for Temperature Guidance Project

Northwest Environmental Advocates v. U.S. EPA et al., Civ. No. 05-1876 HA

Biological Opinion Records

*Record added in 2008

A. NMFS Documents

NO.	Date	Description
		Letter to Randall F. Smith, EPA from D. Robert Lohn, NMFS, Subject: Biological Opinion on EPA's Proposed
1.	02/23/2004	Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods.
2.	02/23/2004	Endangered Species Act – Section 7 Consultation Biological Opinion & Magnuson Stevens Fishery
		Conservation and Management Act Essential Fish Habitat Consultation: EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods, February 23, 2004.
3.	02/10/2004	Draft Biological Opinion on EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegration Implementation Methods [2003/01568 (ESA) & 2004/00087 (EFH)].
4.	02/10/2004	E-mail to Dru Keenan, EPA, and John Palmer, EPA, from Jeffrey Lockwood, NMFS, Subject: Draft biological opinion.*
5.	02/10/2004	February 10, 2004 Draft Biological Opinion, Redline/Strikeout Version.*
6.	02/04/2004	E-mail to Robert C. Anderson, NMFS, from Chris Mebane, NMFS, Subject: Reference for ODEQ temperature data.
		Att. 1: 16v18doc (Comparison of continuous-temperature data and temperature modeling with proposed Oregon "colder-water" salmon and steelhead trout rearing" beneficial use designations).
7.	01/29/2004	E-mail to Jeff Lockwood, NMFS, from Mark Charles, DEQ, Subject: DEQ Temperature Letter No. 2 (pertains to draft of February 4, 2004 letter from Michael Llewelyn, DEQ, to Randy Smith, EPA).
8.	01/29/2004	E-mail to Mark Charles, DEQ, Mary Lou Soscia, EPA, Adrianne Allen, EPA, Cara Lalley, EPA, Danielle Tillman, EPA, Dru Keenan, EPA, Elizabeth Materna, EPA, Jeff Lockwood, NMFS, John Hocjjeimer, Tetratech, John Palmer, EPA, Keith Cohon, EPA, Kellie Kubena, EPA, Maryellen Levine, EPA, Mindy Gampel, EPA, Mark Morris, EPA, Melanie Rowland, NMFS GCNW, Paula Vanhaagen, EPA, Robert C. Anderson, NMFS, Stephanie Thornton, EPA, Steve Ellis, Tetratech, Debra Sturdevant, DEQ, Ralph Stephen, EPA, Ted Buerger, FWS, Tom Townsend, EPA, Tonya Fish, EPA, William Bogue, EPA, and Nancy Wilson, EPA, from Jeff Lockwood, NMFS, Subject: DEQ Temperature Letter No. 2 (pertains to draft of February 4, 2004 letter from Michael Llewelyn, DEQ, to Randy Smith, EPA).
9.	01/13/2004	E-mail to John Palmer, EPA, Dru Keenan, EPA, Mary Lou Soscia, EPA, Cathy Tortorici, NMFS, Jeffrey Lockwood, NMFS, and Debra Sturdevant, DEQ, from Robert C. Anderson, NMFS, Subject: Conservation Measures.*
10.	12/02/2003	E-mail to Mark Charles, DEQ and Debra Sturdevant, DEQ, from Jeffrey Lockwood, NMFS, Subject: Preliminary Draft List of Issues for DEQ Implementation Letter.*
		Att. 1: Provisions Needing Clarification or Interpretation in DEQ Implementation Letter, Jeff Lockwood, NMFS, December 2, 2003 (Preliminary Draft).
11.	11/20/2003	E-mail to Debra Sturdevant, ODEQ, from Jeffrey Lockwood, NMFS, Subject: issue or clarification – protecting cold water.
12.	11/19/2003	E-mail to Jeff Lockwood, NMFS, from Dan Gambetta, NMFS, Subject: IGDO paper analysis.
13.	11/18/2003	E-mail to Jeff Lockwood, NMFS, from Dan Gambetta, NMFS, Subject: thermal shock.
14.	11/14/2003	Recent Summer Maximum Temperature Observations and Proposed ODEQ Summer Maximum Temperature Criteria (Western Oregon).*
15.	11/14/2003	E-mail to Debra Sturdevant, DEQ, from Jeffrey Lockwood, NMFS, Subject: Re: thermal shock provision - DEQ draft rule of 11/6/03.*
16.	11/13/2003	Att. 1: Thermal Shock. E-mail to Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, Subject: RE: thermal shock provision - DEQ
10.	11/13/2003	draft rule of 11/6/03.*

NO.	Date	Description
17.	11/07/2003	E-mail to Dru Keenan, EPA, and Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, Subject: RE: and or or?*
18.	11/06/2003	E-mail to Dru Keenan, EPA from Jeffrey Lockwood, NMFS, Subject: Re: thermal shock provision - DEQ draft rule of 11/6/03.*
19.	11/06/2003	Att. 1: Thermal Shock. E-mail to Dru Keenan, EPA, and Debra Sturdevant, DEQ, from Jeffrey Lockwood, NMFS, Subject: thermal
13.	11/00/2003	shock provision - DEQ draft rule of 11/6/03.*
20.	11/05/2003	E-mail to Jeffrey Lockwood, NMFS, from James Ruff, NMFS, Subject: Re: Review of EPA proposed temperature rule.*
21.	11/04/2003	E-mail to Debra Sturdevant, DEQ, from Jeffrey Lockwood, NMFS, Subject: Re: Conference call for Map Issues.*
22.	11/03/2003	E-mail to Dru Keenan, EPA, from Jeffrey Lockwood, NMFS, Subject: Re: Notes from 10/28 Meeting - Key Unresolved Issues.*
23.	11/03/2003	E-mail to Debra Sturdevant, DEQ, from Jeffrey Lockwood, NMFS, Subject: Re: Ecotrust Data.*
24.	11/03/2003	E-mail to Debra Sturdevant, DEQ, Robert C. Anderson, NMFS, Dru Keenan, EPA, Elizabeth Materna, FWS, John Palmer, EPA, and Chris Mebane, NMFS, Subject: P.S. the citation.*
25.	11/03/2003	E-mail to Debra Sturdevant, DEQ, from Jeffrey Lockwood, NMFS, Subject: Re: on another topic - winter cold water.*
26.	10/31/2003	SR Chinook Spawning Data - 1993-2002.*
27.	10/29/2003	E-mail to Jeffrey Lockwood, NMFS, John Palmer, EPA, Elizabeth Materna, FWS, Dru Keenan, EPA, Debra Sturdevant, DEQ, and Chris Mebane, NMFS, from Robert C. Anderson, NMFS, Subject: Snake River Spawning Criterion.*
28.	10/28/2003	E-mail to Dru Keenan, EPA, from Chris Mebane, NMFS, Subject: Round 2 temperature analysis basins.*
		Att. 1: Recent Summer Maximum Temperature Observations and Proposed ODEQ Summer Maximum Temperature Criteria (selected basins which had little or no "colder" (16°C) designations).
29.	10/28/2003	E-mail to Dru Keenan, EPA, from Chris Mebane, NMFS, Subject: Temperature analysis, Hood and Sandy.*
		Att. 1: Recent Summer Maximum Temperature Observations and Proposed ODEQ Summer Maximum Temperature Criteria (Hood and Sandy Basins).
30.	10/27/2003	E-mail to Debra Sturdevant, DEQ, from Jeffrey Lockwood, NMFS, Subject: FINAL notes from 10/14 where & when.*
		Att. 1: Meeting Notes for October 14, 2003 Beneficial Use Group.
31.	10/24/2003	E-mail to Dru Keenan, EPA, John Palmer, EPA, Debra Sturdevant, DEQ, Cedric Cooney, ODFW, Rick Kepler, ODFW, Elizabeth Materna, FWS, Steve Ralph, EPA, Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, Tracy Harrison, DEQ, Bill Bogue, EPA, and Emily Smith, DEQ, from Chris Mebane, NMFS, Subject: Temperature analysis, round 2.* Missing attached zip data file.
32.	10/24/2003	E-mail to Jeffrey Lockwood, NMFS, Debra Sturdevant, DEQ, and Ritchie Graves, NMFS, from Chris Mebane, NMFS, Subject: Fall chinook spawning/incub temperature designation.*
		Att. 1: Connor, W. P., C. E. Piston, and A. P. Garcia. 2003. Temperature during incubation as one factor affecting the distribution of Snake River fall chinook salmon spawning. Transactions of the American Fisheries Society 132:1236-1243.
33.	10/17/2003	E-mail to Robb Keller, DEQ, from Chris Mebane, NMFS, Subject: Temperature data - need locational info.*
34.	10/14/2003	Meeting Notes for October 14, 2003 Beneficial Use Group.*
35.	10/02/2003	Recent Summer Maximum Temperature Observations and Proposed ODEQ Summer Maximum Temperature Criteria (Western Oregon).*
36.	10/02/2003	Letter to Michael T. Llewelyn, ODEQ, (Attn. Emily Smith), from Michael Tehan, NMFS, Subject: Comments on Draft Proposed Revisions to the Oregon Water Quality Criteria for Temperature and Intergravel Dissolved Oxygen, and Antidegredation Provisions.
37.	10/02/2003	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, NMFS, from Chris Mebane, NMFS, discussing preliminary review of data re Wa/Or streams w/summer max <=16 but designated >16C
		Att. 1: Recent Summer Maximum Temperature Observations and Proposed ODEQ Summer Maximum Temperature Criteria (Western Oregon), October 2, 2003.
38.	08/01/2003	E-mail to Dru Keenan, EPA, from Jeffrey Lockwood, NMFS, Subject: Re: Meeting notes from Conference call 730.03.*
		Att. 1: Notes from Where & When Conference Call July 30, 2003 (redline).

NO.	Date	Description
39.	08/01/2003	E-mail to Tracy Harrison, DEQ, Chris Mebane, NMFS, John Palmer, EPA, Debra Sturdevant, DEQ, Emily
		Smith, DEQ, William Bogue, EPA, Dru Keenan, EPA, Robert C. Anderson, NMFS, Rick Kepler, ODFW,
		Elizabeth Materna, FWS, from Jeffrey Lockwood, NMFS, Subject: Re: Williamette Run Timing.*
40.	07/30/2003	E-mail to Tracy Harrison, DEQ, from Jeffrey Lockwood, NMFS, Subject: Williamette Run Timing.*
41.	06/25/2003	Proposed Decision Rules (DRAFT revised 6/25/03 by Jeff Lockwood).*
42.	06/25/2003	Proposed Decision Rules (DRAFT revised 6/25/03 by Jeff Lockwood - redline).*
43.	06/19/2003	E-mail to Mary Lou Soscia, EPA, from James Ruff, NMFS, Subject: [Fwd: [Fwd:Columbia River Spawning]].*
44.	06/10/2003	Spring Chinook - Upper Grand Ronde (17060104).*
45.	08/16/2002	Agenda - Cold Water Refugia Meeting, August 16, 2002.*
46.	08/02/2002	Memorandum to Chris Torgersen, USGS, from Jeffrey Lockwood, NMFS, Subject: Request for presentation.*
47.	06/13/2002	E-mail to Jeffrey Lockwood, NMFS, from Russ Strach, NMFS, Subject: per your request.*
48.	[undated]	Figure - Temperature of Outflows at Hells Canyon Dam (current habitat) and Swan Falls Dam (historic habitat - Marsing Reach).*

B. EPA Documents

D. L. A	Documents	
NO.	Date	Description
49.	02/04/2004	Letter to Michael Tehan, NMFS, and Kemper McMaster, USFWS, from Randall Smith, EPA, Subject: Transmittal of Biological Evaluation of the Revised Oregon Water Quality Standards.
		Att. 1: Biological Evaluation of the Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation, Amended Final, prepared for USFWS and NMFS by EPA, Region 10 [See State of Oregon Document Section E (Document numbers 176-179) of this index for color versions of maps included in Appendix B].
50.	01/29/2004	E-mail to Jeffrey Lockwood, NMFS, from Mary Lou Soscia, EPA, Re: The DEQ Letter.
51.	01/09/2004	Letter to Michael Tehan, NMFS, and Kemper McMaster, USFWS, from Randall Smith, Subject: Transmittal of 12/16/03 Biological Evaluation of the Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation.
		Att. 1: Biological Evaluation of the Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation prepared for USFWS and NMFS by EPA, Region 10 December 19, 2003.
52.	12/16/2003	E-mail to John Palmer, EPA, from Elizabeth Materna, FWS, Subject: Re: Oregon Clarification Letter.*
53.	12/15/2003	E-mail to Elizabeth Materna, FWS, Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, Jeff Kopf, EPA, John Palmer, EPA, Mary Lou Soscia, EPA, and Kellie Kubena, EPA, from Dru Keenan, EPA, attaching predecisional draft section of biop describing conservation measures and requesting comments.
54.	11/06/2003	E-mail to Jeffrey Lockwood, NMFS, from Dru Keenan, EPA, Subject: thermal shock provision – DEQ draft rule of 11/6/03.
55.	11/06/2003	E-mail to Jeffrey Lockwood, NMFS, from Dru Keenan, EPA, Subject: Re: and or or?*
56.	11/03/2003	E-mail to Adrianne Allen, EPA, from Mark Charles, DEQ, Subject: RE: variance language.*
57.	10/31/2003	E-mail to John Palmer, EPA, Debra Sturdevant, DEQ, Jeffrey Lockwood, NMFS, and Elizabeth Materna, FWS, from Dru Keenan, EPA, Subject: Notes from 10/28 Meeting - Key Unresolved Issues.* Missing Attachment: [Att. 1: Draft Meeting Notes from Where & When Meeting October 28, 2003].
58.	10/10/2003	Environmental Protection Agency Proposed Rule and Preamble: Water Quality Standards for Oregon, 40 CFR Part 131; http://www.epa.gov/fedrgstr/EPA-WATER/2003/October/Day-10/w25525.htm.
59.	10/03/2003	Letter to Michael Llewelyn, DEQ, from Randall Smith, EPA, Subject: Comments on Oregon's Proposed Revisions to OAR Division 41, Water Quality Standards: Beneficial Uses, Policies and Criteria for Oregon.

NO.	Date	Description
60.	09/11/2003	E-mail to Dru Keenan, EPA, from John Palmer, EPA, Subject: Re: preamble - steelhead smoltification.*
61.	08/06/2003	E-mail to Dru Keenan, EPA, Chris Mebane, NMFS, Elizabeth Materna, FWS, Emily Smith, DEQ, Tracy
	00/00/2000	Harrison, DEQ, Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, Debra, Sturdevant, DEQ, William
		Bogue, EPA, and Stephen Ralph, EPA, from John Palmer, EPA, Subject: Final Draft of Where/When Decision Rules.*
		Att. 1: Final Draft of Decision Rules to Designate Pacific Salmon and Bull Trout Beneficial Uses in Oregon
		8/6/03.
62.	07/30/2003	E-mail to Elizabeth Materna, FWS, Robert C. Anderson, NMFS, Jeffrey Lockwood, NMFS, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Tracy Harrison, DEQ, Emily Smith, DEQ, and John Palmer, EPA, from Dru
		Keenan, EPA, Subject: spawning rules II.*
		Att. 1: Draft 7/30/03 version 2 Spawning Rules.
63.	07/30/2003	E-mail to Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, Debra Sturdevant, DEQ, Chris Mebane, NMFS, and Elizabeth Materna, FWS, from Dru Keenan, EPA, Subject: spawning rules.*
64.	07/30/2003	Att. 1: Draft 7/30/03 Spawning Rules. Notes from Where & When Conference Call July 30, 2003.*
65.	07/29/2003	E-mail to Mark Charles, DEQ, and Jeffrey Lockwood, NMFS, from Keith Cohon, EPA, [No Subject].*
66.	07/23/2003	E-mail to Chris Mebane, NMFS, from John Palmer, EPA, Subject: Re: New Spawning Proposal!!!!!!*
67.	07/11/2003	E-mail to Cedric Cooney, ODFW, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, Emily Smith, DEQ, Jeffrey Lockwood, NMFS, John Palmer, EPA, Marilyn Fonseca, DEQ, Rick
		Kepler, ODFW, Robert C. Anderson, NMFS, Stephen Ralph, EPA, Tracy Harrison, DEQ, William Bogue, EPA,
		and Steve Ellis, EPA, from Dru Keenan, EPA, Subject: Decision Rules Justification/Assumptions - to date.*
		Att. 1: Decision Rule Assumptions to date (7/11/03).
68.	06/27/2003	E-mail to Cedric Cooney, ODFW, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth
		Materna, FWS, Emily Smith, DEQ, Jeffrey Lockwood, NMFS, John Palmer, EPA, Marilyn Fonseca, DEQ, Rick Kepler, ODFW, Robert C. Anderson, NMFS, Stephen Ralph, EPA, Tracy Harrison, DEQ, and William Bogue,
		EPA, from Dru Keenan, EPA, Subject: Revised Decision Rules.*
		Att. 1: Decision Rules for Mapping Salmonid Uses 6/27/03 Revision.
69.	06/18/2003	E-mail to Cedric Cooney, ODFW, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, Emily Smith, DEQ, Jeffrey Lockwood, NMFS, John Palmer, EPA, Marilyn, Fonseca, DEQ, Rick
		Kepler, ODFW, Robert C. Anderson, NMFS, Stephen Ralph, EPA, Tracy Harrison, DEQ, and William Bogue, EPA, from Dru Keenan, EPA, Subject: Revised Decision Rules for Where & When.*
		Att. 1: Proposed Decision Rules (Revised 6/18/03).
70.	06/13/2003	E-mail to Cedric Cooney, ODFW, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, Emily Smith, DEQ, Jeffrey Lockwood, NMFS, John Palmer, EPA, Marilyn, Fonseca, DEQ, Rick
		Kepler, ODFW, Robert C. Anderson, NMFS, Stephen Ralph, EPA, Tracy Harrison, DEQ, and William Bogue,
		EPA, from Dru Keenan, EPA, Subject: Mtg Notes PLEASE REVIEW.*
74	06/00/2002	Att. 1: Where and When Workgroup Meeting Notes for June 10th & 11th - June 12, 2003.
71.	06/09/2003	E-mail to Jeffrey Lockwood, NMFS, from Mary Lou Soscia, EPA, Subject: Columbia River Spawning.*
		Att. 1: Letter to Scott Bettin, BPA, Tony Norris, BOR, Rudd Turner, COE, from Raymond Boyce, ODFW, and David Wills, FWS, Subject: Reduction of Chum and Chinook Protection Flows.
L	ļ	Paris Time, TTC, Gabjoor Reduction of Gram and Gramook Frotoston From C.

03/21/2008

NO.	Date	Description
72.	05/30/2003	E-mail to Robert C. Anderson, NMFS, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Marilyn Fonseca, DEQ, Cedric Cooney, ODFW, Rick Kepler, ODFW, Jeffrey Lockwood, NMFS, Elizabeth Materna, FWS, Stephen Ralph, EPA, John Palmer, EPA, from Dru Keenan, EPA, Subject: Where & When Meeting Notes.* Att. 1: Where and When Workgroup Meeting May 27th & May 28th Meeting Notes. Att. 2: Notes from Where & When Conference Call July 30, 2003.
73.	05/21/2003	E-mail to Jeffrey Lockwood, NMFS, Dru Keenan, EPA, Chris Mebane, NMFS, Robert C. Anderson, NMFS, Stephen Ralph, EPA, Elizabeth Materna, FWS, Rick Kepler, ODFW, and Cedric Cooney, ODFW, from John Palmer, EPA, Subject: Agenda for Where/When Mtg 5/27-28.* Att. 1: Draft Agenda Where and When Workgroup Meeting May 27th & May 28th. Att. 2: Trail Map for Use Designations 5/16/03 Draft. Att. 3: Options/Recommendations for Oregon WQS revisions to meet the Court Order Working Draft 5/13/03. Att. 4: Inventory of Life Stage Distribution and Timing Data.
74.	05/16/2003	Trail Map for Use Designations.*
75.	05/09/2003	Draft Temperature Standard Options.*
76.	05/06/2003	Options/Recommendations for Oregon Temperature WQS revisions to meet the Court Order (draft).*

C. Other Documents

NO.	Date	Description
140.	Date	Description
77.	02/24/2004	Letter to Randy Smith, EPA, from Olney Patt, Jr., CRFITC, Subject: Concerns regarding ongoing Oregon Water
		Quality Standards review process.
		Attach word As Tash viral Commonts and Common
70	00/04/0004	Attachment A: Technical Comments and Concerns.
78.	02/24/2004	Fax to Jeff Lockwood, NMFS, Michael Tehan, NMFS, Cathy Tortorici, NMFS, Robert C. Anderson, NMFS,
		Ritchie Graves, NMFS, Brian Brown, NMFS, D. Anderson, NMFS, and Gary Sims, NMFS from Greg Haller,
		Nez Perce Water Resources Division, Subject: Letter to EPA.
79.	02/10/2004	Letter to Randy Smith, EPA, and Michael Crouse, NMFS, from Melissa Powers and Stephanie Parent, Pacific
		Environmental Advocacy Center, Subject: Deficiencies in Oregon's recent water quality standards revision
		process.
80.	08/29/2003	Letter to Mike Llewelyn, DEQ, from William H. Burke, Confederated Tribes of the Umatilla Indian Reservation
		Tribal Water Commisssion, Subject: Comments on the Proposed Changes to Water Quality Standards, OAR
		340-041 and related matters.
81.	08/05/2003	Ecotrust. Notes from T.C. Dewberry concerning the Salmon anchor habitat surveys.*
82.	07/22/2003	E-mail to Jeffrey Lockwood, NMFS, and Mary Lou Soscia, EPA, from Ed Backus, Ecotrust, Subject: RE:
		Questions on Ecotrust for Anchor Habitat Report.*
		Att. 1: Brief Description of Field Technique.
		Att. 2: Method and Justification for Whole-basin Snorkel Counts.
83.	07/22/2003	E-mail to Jeffrey Lockwood, NMFS, and Mary Lou Soscia, EPA, from Ed Backus, Ecotrust, Subject: RE:
		Questions on Ecotrust for Anchor Habitat Report.*
84.	06/19/2003	John Day Salmonid Beneficial Use Table (6/19/03).*

D. Scientific Literature

NO.	Date	Description
85.	1995	Botkin, D., K. Cummins, T. Dunne, H. Regier, M. Sobel, and L. Talt. 1995. Status and future of salmon of western Oregon and northern California: Findings and options. Report #8. The Center for the Study of the Environment, Santa Barbara, California. http://www.naturestudy.org/services/publica.htm.
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E. State of Oregon Documents

NO.	Date	Description		
164.	02/04/2004	Letter to Randy Smith, EPA, from Michael T. Llewelyn, DEQ, Subject: Oregon Responses to EPA, Questions, Subject: State's Water Quality Temperature Standards.		
165.	12/10/2003	Letter to John Iani, EPA, from Stephanie Hallock, DEQ, Subject: Oregon Submission of Revisions to the State Water Quality Standards (OAR 340-041) for EPA Review and Approval.		
166.	11/18/2003	E-mail to Dru Keenan, EPA, John Palmer, EPA, Mary Lou Soscia, EPA, Audrey Hatch, ODFW, Cedric Cooney, ODFW, Rick Kepler, ODFW, Mark Hicks, Washington Department of Ecology, Jeffrey Lockwood, NMFS, and Robert C. Anderson, NMFS, from Debra Sturdevant, DEQ, Subject: RE: chum spawning in the Columbia.* Att. 1: chum_spwn_aerial.jpg.		
167.	11/13/2003	E-mail to Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, RE: thermal shock provision – DEQ draft rule of 11/6/03.		
168.	11/10/2003	Department of Environmental Quality Water Pollution Division 41 Water Quality Standards: Beneficial Uses, Policies, and Criteria for Oregon.		
169.	11/10/2003	E-mail to John Palmer, EPA, Jeffrey Lockwood, NMFS, Dru Keenan, EPA, Robert C. Anderson, NMFS, and Chris Mebane, NMFS, from Debra Sturdevant, DEQ, Subject: RE: spawning main stem Snake.*		
170.	11/05/2003	E-mail to Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, Subject: RE: Conference call for Map Issues.*		
171.	11/04/2003	E-mail to Jeffrey Lockwood, NMFS, and Dru Keenan, EPA, from Debra Sturdevant, DEQ, Subject: RE: Conference call for Map Issues.*		
172.	11/04/2003	E-mail to John Palmer, EPA, Jeffrey Lockwood, NMFS, Dru Keenan, EPA, and Robert Anderson, NMFS, from Debra Sturdevant, DEQ, Subject: spawning main stem Snake.*		
173.	11/03/2003	E-mail to Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, Subject: RE: on another topic - winter cold water.*		
174.	11/03/2003	E-mail to Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, Subject: on another topic - winter cold water.*		
175.	11/03/2003	E-mail to Debra Sturdevant, DEQ, Emily Smith, DEQ, Jeffrey Lockwood, NMFS, John Palmer, EPA, Dru Keenan, EPA, Robert C. Anderson, NMFS, and Chris Mebane, NMFS, from Tracy Harrison, DEQ, Subject: Mid Coast with Salmon Anchor Habitat and T Data.* Att. 1: Critical Period Fish Use Designations - Mid Coast Basin, Oregon (Draft 11/03/2003).		
176.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Deschutes Basin, Oregon (see Beneficial Use Maps folder).		

NO.	Date	Description
177.	11/2003	Salmonid Designation Use Map: Salmon, Steelhead & Bull Trout Spawning through Fry Emergence Use Designations, Deschutes Basin, Oregon (see Beneficial Use Maps folder).
178.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Grande Ronde Basin, Oregon (see Beneficial Use Maps folder).
179.	11/2003	Salmonid Designation Use Map: Salmon, Steelhead & Bull Trout Spawning through Fry Emergence Use Designations, Grande Ronde Basin, Oregon (see Beneficial Use Maps folder).
180.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Hood Basin, Oregon (see Beneficial Use Maps folder).
181.	11/2003	Salmonid Designation Use Map: Salmon, Steelhead & Bull Trout Spawning through Fry Emergence Use Designations, Hood Basin, Oregon (see Beneficial Use Maps folder).
182.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, John Day Basin, Oregon (see Beneficial Use Maps folder).
183.	11/2003	Salmonid Designation Use Map: Salmon, Steelhead & Bull Trout Spawning through Fry Emergence Use Designations, John Day Basin, Oregon (see Beneficial Use Maps folder).
184.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Mid-Coast Basin, Oregon (see Beneficial Use Maps folder).
185.	11/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Mid-Coast Basin, Oregon (see Beneficial Use Maps folder).
186.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, North Coast Basin, Oregon (see Beneficial Use Maps folder).
187.	11/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, North Coast Basin, Oregon (see Beneficial Use Maps folder).
188.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Sandy Basin, Oregon (see Beneficial Use Maps folder).
189.	11/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Umpqua Basin, Oregon (see Beneficial Use Maps folder).
190.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Umpqua Basin, Oregon (see Beneficial Use Maps folder).
191.	11/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Sandy Basin, Oregon (see Beneficial Use Maps folder).
192.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, South Coast Basin, Oregon (see Beneficial Use Maps folder).
193.	11/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, South Coast Basin, Oregon (see Beneficial Use Maps folder).
194.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Umatilla Basin, Oregon (see Beneficial Use Maps folder).
195.	11/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Umatilla Basin, Oregon (see Beneficial Use Maps folder).
196.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Rogue Basin, Oregon (see Beneficial Use Maps folder).
197.	11/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Rogue Basin, Oregon (see Beneficial Use Maps folder).
198.	11/2003	Salmonid Designation Use Map: Salmonid Use Designations, Willamette Basin, Oregon (see Beneficial Use Maps folder).
199.	11/2003	Salmonid Designation Use Map: Salmon & Steelhead Spawning through Fry Emergence Use Designations, Willamette Basin, Oregon (see Beneficial Use Maps folder).
200.	10/31/2003	E-mail to Dru Keenan, EPA, Jeffrey Lockwood, NMFS, and John Palmer, EPA, from Debra Sturdevant, DEQ, Subject: spawning dates in the TMDL.*
201.	10/30/2003	E-mail to Jeffrey Lockwood, NMFS, from Tracy Harrison, DEQ, Subject: RE: ecotrust.*
202.	10/30/2003	Att. 1: Coos Bay and River t Millicoma - S Fk Coos R Confluence - Anadromous Species. E-mail to Jeffrey Lockwood, NMFS, John Palmer, EPA, and Debra Sturdevant, DEQ, from Tracy Harrison, DEQ, Subject: FW: salmon anchor habitat data.*
203.	10/30/2003	E-mail Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, Subject: RE: ecotrust.*
204.	10/28/2003	Middle Willamette River 7-Day Moving Average of the Daily Maximum Flow-Weighted Temperature, August 10, 2001.*
205.	10/28/2003	Preliminary Model Results from DEQ - Willamette River (10/28/03).*
206.	10/22/2003	E-mail to Cedric Cooney, ODFW, Jeffrey Lockwood, NMFS, Elizabeth Materna, FWS, John Palmer, EPA, Robert C. Anderson, NMFS, Rick Kepler, ODFW, Audrey Hatch, ODFW, Emily Smith, DEQ, William Bogue, EPA, Chris Mebane, NMFS, and Debra Sturdevant, DEQ, from Tracy Harrison, DEQ, Subject: Coho only spawning.*
207.	10/21/2003	E-mail to Robert C. Anderson, NMFS, from Debra Sturdevant, DEQ, Subject: RE: Temperature data query #2.*

NO.	Date	Description
208.	10/17/2003	E-mail to Jeffrey Lockwood, NMFS, Elizabeth Materna, FWS, John Palmer, EPA, Robert C. Anderson, NMFS, Rick Kepler, ODFW, Audrey Hatch, ODFW, Emily Smith, DEQ, Tracy Harrison, DEQ, William Bogue, EPA, and Chris Mebane, NMFS, from Cedric Cooney, ODFW, Subject: Lines-of-evidence query results - updated as of 10/15/2003 (w/attachment).*
000	40/40/0000	Att. 1: DEQ checks 10-17-2003.xls.
209.	10/16/2003	E-mail to Jeffrey Lockwood, NMFS, Elizabeth Materna, FWS, John Palmer, EPA, Robert C. Anderson, NMFS, Rick Kepler, ODFW, Cedric Cooney, ODFW, Audrey Hatch, ODFW, Emily Smith, DEQ, Tracy Harrison, DEQ, William Bogue, EPA, and Chris Mebane, NMFS, from Debra Sturdevant, DEQ, Subject: RE: CORRECTION: Draft notes from 10/14 where & when.* Att. 1: Meeting Notes for October 14, 2003 Beneficial Use Group - DRAFT by J. Lockwood.
210.	10/15/2003	E-mail to Chris Mebane, NMFS, from Debra Sturdevant, DEQ, Subject: RE: Temperature data query #2.*
211.	10/09/2003	E-mail to William Bogue, EPA, Cedric Cooney, ODFW, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, Jeffrey Lockwood, NMFS, John Palmer, EPA, Tracy Harrison, DEQ, Rick Kepler, ODFW, and Audrey Hatch, ODFW, from Emily Smith, DEQ, Subject: Where and When comments.* Att. 1: Where and When comments (Fish Use Maps and Tables) (DRAFT 10/8/03). Att. 2: DEQ WQ Standards Revision Official Public Comment Contacts.
212.	10/08/2003	E-mail to Jeffrey Lockwood, NMFS, and Debra Sturdevant, DEQ, Subject: Were & When.*
		Att. 1: Internal comments received during comment period: Where and When - Last updated 10/08/03.
213.	10/08/2003	E-mail to Dru Keenan, EPA, and Debra Sturdevant, DEQ, from Tracy Harrison, DEQ, Subject: RE: Where and When: Forest Service comments.*
214.	10/08/2003	Att. 1: External comments: Where and When - Draft survey: Last updated: 10/08/03. E-mail to Dru Keenan, EPA, and Debra Sturdevant, DEQ, from Tracy Harrison, DEQ, Subject: Where and When: forest service comments.*
		Att. 1: External comments: Where and When.
215.	10/07/2003	E-mail to Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, Subject: RE: where & when [pages 2 and 3 are missing].*
216.	09/12/2003	E-mail to Jeffrey Lockwood, NMFS, Dru Keenan, EPA, and Chris Mebane, NMFS, from Debra Sturdevant, DEQ, Subject: RE: 16 vs. 18.*
217.	08/15/2003	Department of Environmental Quality Water Pollution Division 41 Water Quality Standards: Beneficial Uses, Policies, and Criteria for Oregon.*
218.	08/05/2003	E-mail to Jeffrey Lockwood, NMFS, and Mary Lou Soscia, EPA, from Debra Sturdevant, DEQ, Subject: RE: Ecotrust anchor habitat.*
219.	08/01/2003	E-mail to Chris Mebane, NMFS, John Palmer, EPA, Jeffrey Lockwood, NMFS, William Bogue, EPA, Dru Keenan, EPA, Tracy Harrison, DEQ, Debra Sturdevant, DEQ, and Emily Smith, DEQ, from Audrey Hatch, ODFW, Subject: revised Willamette R timing.* Att. 1: Willamette R - Falls to Newburg - Non-Anadromous Species. Att. 2: Willamette R mouth to falls - Non-Anadromous Species.
		Att. 3: Willamette River - Newburg to Yamhill R - Non-Anadromous Species. Att. 4: Willamette River - Yamhill R to McKenzie R - Non-Anadromous Species.
220.	08/01/2003	E-mail to Dru Keenan, EPA, Cedric Cooney, ODFW, Chris Mebane, NMFS, Elizabeth Materna, FWS, Emily Smith, DEQ, Jeffrey Lockwood, NMFS, John Palmer, EPA, Marilyn Fonseca, DEQ, Rick Kepler, ODFW, Robert C. Anderson, NMFS, Stephen Ralph, EPA, Tracy Harrison, DEQ, and William Bogue, EPA, from Debra Sturdevant, DEQ, Subject: Spawning in migration corridors.*
221.	07/31/2003	E-mail to William Bogue, EPA, Dru Keenan, EPA, John Palmer, EPA, Elizabeth Materna, FWS, Chris Mebane, NMFS, Jeffrey Lockwood, Robert C. Anderson, NMFS, Debra Sturdevant, DEQ, from Rick Kepler, ODFW, Subject: RE: resident species.*
222.	07/25/2003	E-mail to John Palmer, EPA, and Dru Keenan, EPA, from Debra Sturdevant, DEQ, Subject: RE: New Spawning Proposal!!!!!! [p. 3 missing].*
223.	07/25/2003	E-mail to William Bogue, EPA, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, Emily Smith, DEQ, Jeffrey Lockwood, NMFS, John Palmer, EPA, Marilyn Fonseca, DEQ, Rick Kepler, ODFW, Robert C. Anderson, NMFS, Stephen Ralph, EPA, Tracy Harrison, DEQ, from Cedric Cooney, ODFW, Subject: Response to questions from the July15-16 Where/When meeting.* Att. 1: Fish dist questions with answers.doc.

NO.	Date	Description
224.	07/17/2003	E-mail to William Bogue, EPA, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, Jeffrey Lockwood, NMFS, John Palmer, EPA, Tracy Harrison, DEQ, Rick Kepler, ODFW, Stephen Ralph, EPA, Robert C. Anderson, NMFS, Steve Ellis, Tetratech, and Cedric Cooney, ODFW, from Emily Smith, DEQ, Subject: updated meeting notes.*
		Att. 1: Where and When Workgroup Meeting Notes/Decisions for July 15 and 16.
225.	07/14/2003	Draft Department of Environmental Quality Water Pollution Division 41 State-Wide Water Quality Management Plan; Beneficial Uses, Policies, Standards, and Treatment Criteria for Oregon, July 14, 2003 (3rd Draft).*
226.	07/07/2003	E-mail to Robert C. Anderson, NMFS, Robert Beschta, OSU, Christian Torgersen, USGS, Larry Crawshaw, PSU, Robert Danehy, Weyerhaeuser Company, Joe Ebersole, EPA, Bob Eimstad, Carollo.com, Sherri Johnson, OSU, Jeffrey Lockwood, NMFS, Elizabeth Materna, FWS, Gordon Reeves, USFS, and Tamzen Stringham, OSU, from Debra Sturdevant, DEQ, Subject: FW: T Standards issues to resolve.* Att. 1: Temperature Standard Issues.
		Att. 2: Draft Oregon Temperature Criteria - July 7 Version.
227.	07/03/2003	E-mail to Robert C. Anderson, NMFS, Robert Beschta, OSU, Christian Torgersen, USGS, Larry Crawshaw, PSU, Robert Danehy, Weyerhaeuser Company, Joe Ebersole, EPA, Bob Eimstad, Carollo.com, Sherri Johnson, OSU, Jeffrey Lockwood, NMFS, Elizabeth Materna, FWS, Matthew Boyd, Carollo.com, Michael McNamara, USFS, Gordon Reeves, USFS, and Tamzen Stringham, OSU, from Debra Sturdevant, DEQ, Subject: FW: huc jpegs.*
		Att. 1: John Day HUCs with Hydrology.
		Att. 2: Umpqua HUCs with Hydrology.
228.	06/26/2003	E-mail to John Palmer, EPA, Dru Keenan, EPA, and William Bogue, EPA, from Debra Sturdevant, DEQ, Subject: RE: (18/16 split).*
229.	06/19/2003	E-mail to William Bogue, EPA, Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, Emily Smith, DEQ, Jeffrey Lockwood, NMFS, John Palmer, EPA, Marilyn Fonseca, DEQ, Rick Kepler, ODFW, Robert C. Anderson, NMFS, Stephen Ralph, EPA, Tracy Harrison DEQ, from Cedric Cooney, ODFW, Subject: Line-of-evidence query results and complete set of timing tables.* Att. 1: DEQ.xls.
230.	06/02/2003	E-mail to Chris Mebane, NMFS, Debra Sturdevant, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, Jeffrey Lockwood, NMFS, John Palmer, EPA, Marilyn Fonseca, DEQ, Rick Kepler, ODFW, Robert C. Anderson, NMFS, Stephen Ralph, EPA, from Cedric Cooney, ODFW, Subject: draft timing tables & PowerPoint presentation.*
231.	05/27/2003	Life Stage Timing Criteria, Definitions, & Questions (from ODFW).
232.	05/27/2003	Fish Habitat Distribution Development Project Primary Data Products – Descriptions and major attributes (from ODFW).
233.	05/16/2003	E-mail to Robert C. Anderson, NMFS, Robert Beschta, OSU, Christian Torgersen, USGS, Larry Crawshaw, PSU, Robert Danehy, Weyerhaeuser Company, Joe Ebersole, EPA, Bob Eimstad, Carollo.com, Sherri Johnson, OSU, Jeffrey Lockwood, NMFS, Elizabeth Materna, FWS, Matthew Boyd, Carollo.com, Michael McNamara, USFS, Gordon Reeves, USFS, and Tamzen Stringham, OSU, from Debra Sturdevant, DEQ, Subject: Another Option.*
234.	02/2003	Relationships Between Bank Treatment Nearshore Development and Anadromous Resident Fish in the Lower Willamette River, Annual Progress Report, July 2001 - June 2002. Oregon Department of Fish and Wildlife. February 2003. [selected pages].*

Temperature Guidance Records

A. NMFS Documents

NO.	Date	Description
235.	03/26/2003	E-mail to Melanie Rowland, NMFS GCNW, from Jeffrey Lockwood, NMFS, Subject: Re: CWA and temperature project.
236.	03/14/2003	E-mail to Kim Kratz, NMFS, and Jeffrey Lockwood, NMFS, from Walt Dickhoff, NMFS, Subject: Review of temperature guidance, containing internal discussion re temperature guidance and seeking comments.
237.	12/12/2002	E-mail to Manette Simpson, DEQ, Dru Keenan, EPA, Elizabeth Materna, FWS, and Debra Sturdevant, DEQ, from Jeffrey Kockwood, NMFS, Subject: Re: comments on draft John Day monitoring. Att. 1: Memorandum to Manette Simpson, DEQ, from Jeffrey Lockwood, NMFS, Subject: Comments on draft report Temperature Monitoring in the John Day River Basin for 2001 (November, 2002).

NO.	Date	Description
238.		[Removed duplicate of entry for No. 237 above made in error.]
239.	12/04/2002	E-mail to John Palmer, EPA, from Jeffrey Lockwood, NMFS, Subject: Re: [Fwd: Electronic version of temp comments].
		Att. 1: Draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002, Draft EPA Region 10 Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards.
240.	12/02/2002	E-mail to Michael Tehan, NMFS, and Scott Hoefer, NMFS, from Jeffrey Lockwood, NMFS, Subject: spanwing in John Day.
		Att. 1: Memorandum to Debra Sturdevant, DEQ, Manette, Simpson, DEQ, and Joe Bernert, DEQ, from Rick Kepler, ODFW, Subject: Review of June 1, 2001 meeting on 1:24,000 Fish Distribution and Life Stage Timing Project
241.	11/27/2002	E-mail to Robert C. Anderson, NMFS, and Jeffrey Lockwood, NMFS, from Anita Macauley, NMFS, Subject: OHB2002-0329-GC_final_11-26-2002.wpd.
		Att. 1: Letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002, Draft EPA Region 10 Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards.
242.	11/22/2002	E-mail to Rachel Friedman, NMFS, Robert C. Anderson, NMFS, and Chris Looney, NMFS, from Jeffrey
243.	11/22/2002	Lockwood, NMFS, Subject: [Fwd: Looking for a few good studies]. E-mail to Robert C. Anderson, NMFS, Rachel Friedman, NMFS, Ed Murrell, NMFS, and Chris Looney, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Draft Peer Review Questions].
		Att. 1: Questions for the Scientific Peer Review Panel EPA's 2nd Draft Temperature Guidance, Draft 11/21/02
244.	10/04/2002	Subject: [Fwd: Changes to Temp Guidance] From: Jeff Lockwood <jeffrey.lockwood@mercury.akctr.noaa.gov> Date: Fri, 04 Oct 2002 16:36:26 -0700 To: Blane Bellerud <blane.bellerud@noaa.gov></blane.bellerud@noaa.gov></jeffrey.lockwood@mercury.akctr.noaa.gov>
		E-mail to Blane Bellerud, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Changes to Temp Guidance].
		Att. 1: V.1.2 Discussion of Use and Criteria Presented in Table 3.
245.	09/30/2002	Comments – September 30, 2002 draft temperature guidance, by NMFS.
246.	09/30/2002	E-mail to Robert C. Anderson, NMFS, Ed Murrell, NMFS, and Rachel Friedman, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Changes to Temp Guidance].
		Att. 1: V.1.2 Discussion of Use and Criteria Presented in Table 3.
247.	09/03/2002	E-mail to Ed Murrell, NMFS, Rachel Friedman, NMFS, Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Revised Temp Guidance].
		Att. 1: Draft EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards Working Draft - 2nd Public Review Draft, August 29, 2002.
248.	08/16/2002	Agenda - Cold Water Refugia Meeting - August 16, 2002.
249.	08/09/2002	E-mail to Rachel Friedman, NMFS, Ed Murrell, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Mulling over the Metric].
		Att. 1: Ave Temps.xls [Excel document]. Att. 2: Summaris of T data West OR. xls [Excel document]. Att. 3: Memorandum to John Palmer, EPA, from Debra Sturdevant, DEQ, Subject: Temperature metric.
250.	08/09/2002	E-mail to Robert C. Anderson, NMFS from Jeffrey Lockwood, NMFS, Subject: [Fwd: Mulling over the Metric], forwarding e-mail to Geoffrey Poole, EPA, and 21 other recipients, from Dale McCullough, CRITFC, Subject: Re: Mulling over the Metric.
		Att. 1: Memorandum to John Palmer, EPA, from Dale McCullough, CRITFC, Re: E-mail from J. Palmer, "Mulling over the Metric," dated August 6, 2002.

NO.	Date	Description
251.	08/09/2002	E-mail to Rachel Friedman, NMFS, Ed Murrell, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Mulling over the Metric].
252.	08/09/2002	E-mail to Jeffrey Lockwood, NMFS, from Robert C. Anderson, NMFS, Subject: Re: [Fwd: Major Decisions for Temp Guidance/Next meeting - Aug 28th].
253.	08/09/2002	E-mail to Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: [Fwd: Major Decisions for Temp Guidance/Next meeting - Aug 28th].
		Att. 1: Memorandum to John Palmer, EPA, from Russell Strach, NMFS, Subject: Comments on the EPA document Major Decisions Regarding the Draft Temperature Guidance (August 5, 2002).
254.	08/08/2002	E-mail to Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Major Decisions for Temp Guidance/Next meeting - Aug 28th].
		Att. 1: Major Decisions Regarding the Draft Temperature Guidance, 8/5/02.
255.	08/07/2002	E-mail to Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Oregon's temp comments], forwarding 07/17/2002 e-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: Oregon's temp comments, forwarding 07/15/2002 e-mail to John Palmer, EPA, Subject: Comments on the June 18th Working Draft of the Temp Guidance.
		Att. 1: Memorandum to John Palmer, EPA, from Mark Charles, ODEQ, Subject: June 18th Working Draft Temperature Guidance.
256.	08/07/2002	E-mail to Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: CRITFC temp comments].
		Att. 1: Memorandum to John Palmer, EPA, from Patti Howard and Dale McCullough, CRITFC, Subject: CRITFC Staff Comments on the Second Public Review Document for the EPA Region 10 Draft Temperature Criteria Guidance Project.
257.	08/06/2002	E-mail to Jeffrey Lockwood, NMFS, from Russ Strach, NMFS, Subject: Re: [Fwd: Major Decisions for Temp Guidance/Next meeting - Aug 28th].
258.	08/06/2002	E-mail to Robert C. Anderson, NMFS, Russ Strach, NMFS, Ed Murrell, NMFS, Rachel Friedman, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Major Decisions for Temp Guidance/Next meeting - Aug 28th].
		Att. 1: Major Decisions Regarding the Draft Temperature Guidance, 8/5/02.
259.	06/20/2002	E-mail to Rachel Friedman, NMFS, Chris Looney, NMFS, Ed Murrell, NMFS, Robert C. Anderson, NMFS, and Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Working Draft of Revised Temp Guidance].
		Att. 1: EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards, 2nd Public Review Draft, June 18, 2002.
260.	06/20/2002	E-mail to Rachel Friedman, NMFS, Chris Looney, NMFS, Ed Murrell, NMFS, Robert C. Anderson, NMFS, and Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Working Draft of Revised Temp Guidance]
		Att. 1: EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards, 2nd Public Review Draft, June 18, 2002
261.	05/15/2002	E-mail to Kelley Jorgensen, WSDOT, from Robert C. Anderson, NMFS, Subject: [Fwd: temperature refugia paper].
		Att. 1: Ebersole, Joseph, L. 2001. Heterogeneous Thermal Habitat for Northeast Oregon Stream Fishes. Doctoral dissertation. Oregon State University. Corvallis, Oregon.
262.	05/15/2002	E-mail to Charley Rains, NMFS, Robert C. Anderson, NMFS, Rachel Friedman, NMFS, Chris Looney, NMFS, and Ed Murrell, NMFS, from Jeffrey Lockwood, NMFS, Subject: temperature refugia paper.
		Att. 1: Ebersole, Joseph, L. 2001. Heterogeneous Thermal Habitat for Northeast Oregon Stream Fishes. Doctoral dissertation. Oregon State University. Corvallis, Oregon.
263.	05/13/2002	E-mail to Chris Looney, NMFS, Ed Murrell, NMFS, Rachel Friedman, NFMS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Questions for 5/21/02 mtg].
		Att. 1: SLS Criteria & Application Straw Option, Draft, May 8, 2002.

NO.	Date	Description
264.	04/30/2002	E-mail to Rachel Friedman, NMFS, Chris Looney, NMFS, Ed Murrell, NMFS, and Robert Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Draft Outline of Revised Temp Guidance], forwarding e-mail to David Mabe, DEQ, and 20 other recipients, from John Palmer, EPA, Subject: Draft Outline of Revised Temp Guidance.
		Att. 1: Temperature Guidance Outline, Draft 4/29/02. Att. 2: Recommended Framework for Temperature Guidance, Draft 4/29/02. Att. 3: SLS Application Options Issues/Assumptions for All Options, Draft 4/18/02. Att. 4: Feedback on EPA's Proposed Framework for Temperature Guidance. Att. 5: Memorandum to John Palmer, EPA, from Jeffrey Lockwood, NMFS, Subject: Feedback on EPA's proposed framework.
265.	04/23/2002	E-mail to Jeffrey Lockwood, NMFS, from Robert C. Anderson, NMFS, Subject: Re: [Fwd: Update and Status].
266.	04/23/2002	Steelhead Spawn Table.
267.	04/02/2002	E-mail to John Palmer, EPA, from Jeffrey Lockwood, NMFS, Subject: Re: Temperature is a limiting factor for salmon.
268.	03/12/2002	E-mail to Robert C. Anderson, NMFS, Rachel Friedman, NMFS, Chris Looney, NMFS, and Ed Murrell, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Chiwawa Case study]. Att. 1: Application of New Approaches to Water Quality Temperature Criteria. Chiwawa River Case Study. For
269.	02/11/2002	Idaho Department of Environmental Quality by BioAnalysts, Inc. March 2002. E-mail to Dru Keenan, EPA, and John Palmer, EPA, from Jeffrey Lockwood, NMFS, Subject: Why Temperature Matters - ISG. Att. 1: Water Temperature Effects on Salmonid Fishes, Excerpted from Return to the River 2000 Independent Scientific Group, Compiled by Jeff Lockwood, NMFS
270.	02/11/2002	Water Temperature Effects on Salmon and Steelhead. Source: Status Review of Chinook Salmon from Washington, Idaho, Oregon, and California:
271.	08/17/2001	E-mail to Jason Dunham, USFS, and 14 other recipients, from Jeffrey Lockwood, NMFS, Subject: instream temperature variability.
272.	07/19/2001	Six Options Matrix created by NMFS for the Policy Workgroup.
273.	06/06/2001	Consideration of Accessible, Inaccessible, Unoccupied and Historic Habitat in NMFS' Designation of Critical Habitat. Source: Designated Critical Habitat: Critical Habitat for 19 Evolutionarily Significant Units of Salmon and Steelhead in Washington, Oregon, Idaho, and California. 65 FRN 7764, February 16, 2000. Available at http://www.nwr.noaa.gov/1salmon/salmesa/fedreg.htm
274.	[undated]	Mebane's Temperature Graphics from Boise Meeting.

B. EPA Documents

NO.	Date	Description
275.	04/28/2003	E-mail to David Mabe, DEQ, and 20 other recipients, from John Palmer, EPA, Subject: Final Temperature Guidance!!
		Att. 1: EPA Region 10 Guidance For Pacific Northwest State and Tribal Temperature Water Quality Standards, April 2003
		Att. 2: Letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: Comments on Final Temperature Guidance. Att. 3: Letter to John Iani, EPA, from Regional Director, USFWS, Re: Comments on Final Temperature Guidance.
		Att. 4: EPA Issues Final Water Temperature Guidance - April 2003
276.	04/21/2003	E-mail to David Mabe, DEQ, and 7 other recipients, from John Palmer, EPA, Subject: Temp Guidance & Press Release.
		Att. 1: EPA Region 10 Guidance For Pacific Northwest State and Tribal Temperature Water Quality Standards, Final Draft - April 21, 2003 [Of the identical e-mail attachments, only the Word document was converted to PDF and attached].

NO.	Date	Description
277.	03/12/2003	E-mail to David Mabe, DEQ, and 21 additional recipients, from John Palmer, EPA, Subject: Final Draft of Temp guidance.
		Att. 1: EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards, March 11, 2003 Draft [Of the identical e-mail attachments, only the Word document was converted to PDF and attached].
278.	02/18/2003	Agenda - Public Workshop on EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards, Kennewick, WA - February 12, 2002.
279.	02/14/2003	E-mail to David Mabe, DEQ, and 19 other recipients, from John Palmer, EPA, Subject: Revised EPA Temp Guidance (attached). Att. 1: EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards,
280.	01/17/2003	February 14, 2003 Draft E-mail to Patti Howard, CRITFC, from John Palmer, EPA, Subject: Re: Temp Materials (Changes, Peer
281.	01/16/2003	Review, Comment Sum). E-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: Temp Materials (Changes, Peer Review, Comment Sum).
		Att. 1: Possible Changes to Temperature Guidance, Draft 1/16/02. Att. 2: Summary of Scientific Peer Review Discussion Concerning US EPA Region 10 Guidance For Stream Temperature Water Quality Standards, December 3, 2002. Att. 3: Major Comments (categorized) on 2nd Draft of Temperature Guidance, 1/7/03.
282.	01/02/2003	E-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: Temp PW/TW Mtg & Possible Changes to Guidance. Att. 1: Possible Changes to Temperature Guidance, Draft 1/02/02.
283.	12/19/2002	E-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: Steps to Finalize the Temp Guidance.
284.	12/19/2002	E-mail to Dru Keenan, EPA, and 21 other receipients, from John Palmer, EPA, Subject: Help respond to comment: temp equilibrium concept.
285.	12/18/2002	E-mail to Dru Keenan, EPA, and 21 other recipients, from John Palmer, EPA, Subject: Help respond to comment: separate spawning criteria. Att. 1: Letter to John Palmer, EPA, from Gregg Carrington, Chelan PUD, Subject: Response to Comments on
200	12/18/2002	EPA Temperature Guidance Criteria. E-mail to Dru Keenan, EPA, and 21 other recipients, from John Palmer, EPA, Subject: Help respond to
286.		comment: temp and fish populations.
287.	12/12/2002	E-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: Temp Comments 2nd email.
		Att. 1: Water Quality Temperature Criteria Guidance Collected Comments (Comments submitted from October 10 to November 26, 2002) Part II – Environmental Groups.
		and Municipalities U.S. Environmental Protection Agency Region 10 – Pacific Northwest, December 2002. Att. 2: Water Quality Temperature Criteria Guidance Collected Comments (Comments submitted from October 10 to November 26, 2002) Part III – Native Tribes, State Agencies and Federal Agencies U.S. Environmental Protection Agency Region 10 – Pacific Northwest, December 2002.
288.	12/01/2002	E-mail to John Palmer, EPA, and 14 other recipients, from Sherri Johnson, EPA Contractor, Subject: RE: Peer Review Questions.
289.	11/21/2002	E-mail to Dru Keenan, EPA, and 13 other recipients, from John Palmer, EPA, Subject: Draft Peer Review Questions.
		Att. 1: Questions for the Scientific Peer Review Panel EPA's 2nd Draft Temperature Guidance, Draft 11/21/02.
290.	11/18/2002	E-mail to Dale McCullough, CRITFC, from John Palmer, EPA, Subject: Re: If you had one question for the peer review group.
291.	10/31/2002	E-mail to Debra Sturdevant, DEQ, from John Palmer, EPA, Subject: RE: Looking for a few good studies.
292.	10/15/2002	E-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: NOAA NMFS comments.

NO.	Date	Description	
293.	10/03/2002	E-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: ID Temp Comments.	
		Att. 1: Comments on August 29, 29002 2nd Public Review Draft of "EPA Region 10 Guidance for State and Tribal temperature Water Quality Standards"	
294.	10/03/2002	E-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: OR Temp Comments, forwarding 10/01/2002 e-mail to John Palmer, EPA, from Martha Tully, DEQ, Subject: comment to forward to EPA.	
		Att. 1: Memorandum to John Palmer, EPA, Randy Smith, EPA, and Dru Keenan, EPA, from Debra Sturdevant, DEQ, SUBJECT: EPA Temperature Guidance, August 29 Working Draft and September 30 Revisions.	
295.	09/18/2002	Graphs and Charts.	
296.	08/30/2002	E-mail to Jeffrey Lockwood, NMFS, from Joe Ebersole, EPA, Subject: Re: Aug. 16 p.m. briefing for NMFS regional administrator. Att. 1. Presentation titled "Thermelly Heterogeneous Habitet for Northwest Oregon Streem Fishes." by Joe	
		Att. 1: Presentation titled "Thermally Heterogeneous Habitat for Northeast Oregon Stream Fishes," by Joe Ebersole, U.S. EPA National Health and Environmental Effects Research Laboratory, Western Ecology Division, Corvallis, Oregon [PowerPoint File].	
297.	08/06/2002	E-mail to David Mabe, DEQ, and 21 other recipients, from John Palmer, EPA, Subject: Mulling over the Metric.	
298.	04/03/2002	E-mail to Jeffrey Lockwood, NMFS, from John Palmer, EPA, Subject: Re: Temperature is a limiting factor for salmon.	
299.	04/02/2002	E-mail to Jeffrey Lockwood, NMFS, Dru Keenan, EPA, John Palmer, EPA, and Robert C. Anderson, NMFS, Subject: Re: Temperature is a limiting factor for salmon.	
300.	03/07/2002	E-mail to Geoffrey Poole, and 12 other recipients, from Dru Keenan, EPA, Subject: Draft Meeting Notes for 3/4/02 Mtg.	
		Att. 1: DRAFT: Flip Chart Notes from February 4, 2002 Technical Workgroup Meeting, 3//6/02	
301.	02/12/2002	Agenda - Public Workshop on EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards, Kennewick, WA - February 12, 2002.	
302.	09/24/2001	Comparison between Technical Workgroup Recommended "Targets" and Existing/Proposed State Numeric Criteria.	
303.	08/13/2001	E-mail to Cathy Tortorici, NMFS, and 32 other recipients, from John Palmer, EPA, Subject: Agenda for Temp Policy Meeting (August 14 & 15th).	
		Att. 1: Remaining Decisions on Key Features of the Temperature Guidance, To-Do's and Preparation for the August 14 & 15 Policy Meeting.	
		Att. 2: Missing [Temp-regional-interimcrit-080901.doc.; could not open]. Att. 3: Pros and Cons of an Initial Assessment Based on Species Life State Criteria. Draft by ebra August 6,	
		2001, Amended 8/13/01. Att. 4: Meeting Summary for July 19 & 20th, 2001, Pacific Northwest Temperature Project Policy Workgroup, August 2, 2001 version.	
304.	08/08/2001	Species Life Stage Module Criteria, Developed by the technical workgroup as of August 8, 2001.	
305.	07/02/2001	E-mail to Geoffrey Poole, EPA, and 13 other recipients, from Dru Keenan, EPA, Subject: Final Meeting Summary for 5/22 Technical Retreat.	
		Att. 1: Meeting Summary - Regional Temperature Project Technical Workgroup, May 22, 23, 2001 (Final 7/2/01).	
306.	06/20/2001	E-mail to Geoffrey Poole, EPA, and 13 other recipients, from Dru Keenan, EPA, Subject: Final Meeting Notes for May 3rd.	
		Att. 1: Meeting Summary - Regional Temperature Project Technical Workgroup, May 3, 2001 (Final 6/13/01).	

NO.	Date	Description	
307.	05/31/2001	E-mail to Cathy Tortorici, NMFS, and 16 other recipients, from John Palmer, EPA, Subject: Agenda/Materials for Temp Policy Mtg (June 7).	
		Att. 1: Distrubution of Temperature Approach to Water Temperature Criteria, Sally Sauter, 05/09/01. Att. 2: Sub-Basin Temperature Management Plan Option (A combined biological threshold and thermal potential approach), Debra, May 11, 2001.	
		Att. 3: Sub-Basin Temperature Management Plan. Att. 4: Natural Thermal Potential, 6/1/01	
200	05/45/2004	Att. 5: Flow Chart for Distribution Threshold Approach. G. Poole, 5/30/01.	
308.	05/15/2001	E-mail to Cathy Tortorici, NMFS, and 33 other recipients, from John Palmer, EPA, Subject: Meeting Summary for May 3 Temp Policy Mtg.	
		Att. 1: Meeting Summary for May 3, 2001, Pacific Northwest Temperature Project Policy Workgroup, May 15, 2001 version.	
309.	04/17/2001	E-mail to Geoffrey Poole, EPA, and 13 other recipients, from Dru Keenan, EPA, Subject: ACTION ITEMS - Please Read	
		Att. 1: Draft Flip Chart Notes from April 11, 2001 Technical Workgroup Meeting (4/16/01) [with handwritten notes].	
		Att. 2: Meeting Summary - Regional Temperature Project Technical Workgroup, March 7, 2001 (Final 4/16/01).	
310.	03/29/2001	E-mail to Geoffrey Poole, EPA, and 15 other recipients, from Dru Keenan, EPA, Subject: Technical Workgroup Meeting Notes.	
		Att. 1: Meeting Summary - Regional Temperature Project Technical Workgroup, Febryart 7, 2001 (Final 3/28/01)	
0.1.1	00/00/0004	Att. 2: Draft Flip Chart Notes from March 7, 2001 Technical Workgroup Meeting (3/28/01)	
311.	03/06/2001	E-mail to Geoffrey Poole, EPA, and 15 other recipients, from Dru Keenan, EPA, Subject: Final meeting summary for 2/1/01.	
		Att. 1: Meeting Summary - Regional Temperature Project Technical Workgroup, January 31 & February 1, 2001 (Final 3/06/01).	
312.	01/29/2001	E-mail to Carl Schreck, Oregon State U, and 15 other recipients, from Dru Keenan, EPA, Subject: Meeting Summary for 1/4/01.	
		Att. 1: Meeting Summary - Regional Temperature Project Technical Workgroup, January 4, 2001 (Final 1/29/01).	
		Att: 2: Missing. Att. 3: Missing. Att. 4: Missing.	
313.	01/24/2001	E-mail to Patti Howard, Nez Perce, Rachel Friedman, NMFS, and Jan Pisano, NMFS, from Dru Keenan, EPA, Subject: Agenda for Jan 31st Temperature meeting.	
		Att. 1: Agenda - Temperature Criteria Development Project Technical Workgroup Retreat, January 31 and February 1, 2001.	
314.	12/13/2000	Att. 2: Missing. Meeting Summary - Regional Temperature Project Technical Workgroup, November 7, 2000.	
315.	11/30/2000	E-mail to Carl Schreck, OSU, and 15 other recipients, from Dru Keenan, EPA, Subject: Agenda for December 7th Technical Meeting.	
316.	11/06/2000	EPA Pacific Northwest Regional Temperature-Criterion Development "System Potential" Conceptual Model.	
317.	10/04/2000	E-mail to Carl Schreck, OSU, and 15 other recipients, from Dru Keenan, EPA, Subject: AGENDA for 10/12.	
318.	08/25/2000	Meeting Summary for August 2, 2000, Pacific Northwest Temperature Project Policy Workgroup, August 25, 2001 version.	
319.	07/19/2000	E-mail to Jason Dunham, USFS, and 16 other recipients, from Geoffrey Poole, EPA, Subject: Re: Subgroup conference call notes.	
320.	07/19/2000	E-mail to Jason Dunham, USFS, from Geoffrey Poole, EPA, Subject: Subgroup conference call notes.	
321.	07/13/2000	E-mail to Geoffrey Poole, EPA, and 5 other recipients, Subject: Final Ideal Characteristics for 7/14/call.	
322.	07/12/2000	Meeting Summary for June 27, 2000, Pacific Northwest Temperature Project Policy Workgroup, July 12 version.	

NO.	Date	Description	
323.	07/05/2000	E-mail to Carl Schreck, Oregon State U, and 16 other recipients, from Dru Keenan, EPA, Subject: Meeting Notes and More.	
		Att. 1: Meeting Summary - Regional Temperature Project Technical Workgroup, June 6, 2000.	
324.	04/07/2000	E-mail to Randy Smith, EPA, from Geoffrey Poole, EPA, forwarding article on fish extencions.	
325.	03/01/2000	E-mail to Carl Schreck, Oregon State U, and 15 other recipients, from Dru Keenan, EPA, Subject: Agenda for 37/00 Temperature Mtg.	
326.	[undated]	EPA Pacific Northwest Regional Temperature Criteria Development "System Potential" Conceptual Model.	
327.	[undated]	Review of draft distribution issue paper by Sherri Johnson, EPA Contractor.	

C. Other Documents

NO.	Date	Description	
328.	01/09/2003	E-mail to Geoffrey Poole, EPA, and 18 other recipients, from Dale McCullough, CRITFC, Subject: responses to comments.	
329.	12/30/2002	E-mail to John Palmer, EPA, from Shelley Spalding, FWS, Subject: Re: Steps to Finalize the Temp Guidance.	
		Att. 1: Unsigned letter to John Iani, EPA, from FWS Regional Director, Re: Comments on Draft Temperature Guidance.	
330.	11/18/2002	E-mail to John Palmer, EPA, from Shelley Spalding, FWS, Subject: Re: If you had one question for the peer review group.	
331.	10/31/2002	Subject: Re: Re: Looking for a few good studies E-mail to Debra Sturdevant, DEQ, from Dale McCullough, CRITFC, Subject: Re: RE: Looking for a few good studies.	
332.	10/29/2002	E-mail to John Palmer, EPA, from Jason Dunham, USFS, Subject: Re: Looking for a few good studies.	
		Att. 1: Lobon-Cervia, Javier, and Pedro A. Rincon. 1998. Field Assessment of the Influence of Temperature on Growth Rate in a Brown Trout Population. Transactions of the American Fisheries Society 127:718–728. Att. 2: King, J. R., J. Shuter, and A. P. Zimmerman. 1999. Empirical Links between Thermal Habitat, Fish Growth, and Climate Change. Transactions of the American Fisheries Society 128:656–665. Att. 3: Brenkman, Samuel J., Gary L. Larson and Robert E. Gresswell. 2001. Transactions of the American Fisheries Society 130:981–987.	
333.	09/06/2002	Technical Interpretation of Goal by Technical Workgroup.	
334.	08/09/2002	Figures of 7-Day Temperature Statistic. [Author unknown].	
335.	07/02/2002	E-mail to Geoffrey Poole, EPA, and 18 other recipients, from Dale McCullough, CRITFC, Subject: Peer Review response to Elizabeth.	
336.	06/20/2002	Att. 1: Bull Trout Peer Review Question Critique and Suggestions, July 2, 2002. E-mail to Geoffrey Poole, EPA, and 18 other recipients, from Dale McCullough, CRITFC, Subject: 2 pdfs for peer reviewers.	
007	05/04/0000	Att. 1: Edsall, Thomas A., Anthony M. Frank, Donald V. Rottiers, and Jean V. Adams. 1999. The effect of temperature and ration size on the growth, body composition, and energy content of juvenile coho salmon. J Great Lakes Res. 25(2):355-362. Att. 2: Elliott, J. M. and M. A. Hurley. 1999. A new energetics model for brown trout, <i>Salmo trutta</i> . Freshwa Biology 42: 235-246.	
337.	05/21/2002	Modeled temperature figure for Klamath River Basin.	

NO.	Date	Description	
338.	05/09/2002	E-mail to Geoffrey Poole, EPA, and 11 other recipients, from Don Essig, DEQ, Subject: Re: Tech Workgroup Mtg.	
		Att. 1: Information on interannual variation in water temperature.	
339.	05/08/2002	E-mail to Dru Keenan, EPA, and Jeffrey Lockwood, NMFS, from Dale McCullough, CRITFC, Subject: effects of warming on habitat.	
340.	05/03/2002	Life History Information.	
341.	04/30/2002	Fausch, K. D., C. E. Torgersen, C. V. Baxter, and H. W. Li. 2002. Landscapes to Riverscapes: Bridging the Gap between Research and Conservation of Stream Fishes. Bioscience 52 (6).	
342.	04/05/2002	E-mail to Geoffrey Poole, EPA, and 16 other recipients, from Dale McCullough, CRITFC, Subject: Yakima R. data.	
		Att. 1: Selected Pages from TriCountyWaterResourceAgency/2-99-010/Assessment/Section5.doc., January 29, 2001.	
343.	04/05/2002	Att. 2: Yakima Subbasin Summary, Prepared for the Northwest Power Planning Council, 4/9/02 draft. E-mail to Jeffrey Lockwood, NMFS, from Dale McCullough, CRITFC, Subject: info. for temp. as problem.	
		Att. 1: Methow and Okanogan Rivers Subbasin Salmon and Steelhead Production Plan, September 1, 1990.	
344.	03/22/2002	E-mail to Jeffrey Lockwood, NMFS, from Dale McCullough, CRITFC, Subject: Mid-Col limiting factors.	
		Att. 1: Aquatic Species and Habitat Assessment: Wenatchee, Entiat, Methow, and Okanogan Watersheds.	
345.	03/20/2002	E-mail to Jeffrey Lockwood, NMFS, from Dale McCullough, CRITFC, Subject: Fwd: Water temps on egg viability.	
		Att. 1: Missing.	
346.	02/25/2002	E-mail to Dru Keenan, EPA, from Don Essig, DEQ, Subject: Selway/anti-deg.	
347.	02/20/2002	E-mail to Dru Keenan, EPA, from Don Essig, DEQ, Subject: Idaho's Dissenting Opinion on RTCD criteria.	
		Att. 1: Letter to Dru Keenan, EPA, from Don Essig, DEQ, Subject: Idaho's dissenting opinion on temperature criteria recommended by the Regional Temperature Criteria Development Team: Technical Work Group (February 20, 2002 draft).	
		Att. 2: Letter to Dru Keenan, EPA, from Don Essig, DEQ, Subject: Idaho's dissenting opinion on temperature criteria recommended by the Regional Temperature Criteria Development Team: Technical Work Group (February 22, 2002).	
		Att. 3: Dissenting Opinion on Biological Threshold Numbers proposed by Regional Temperature Criteria Development Technical Workgroup.	
348.	11/09/2001	Ebersole, Joseph, L. 2001. Heterogeneous Thermal Habitat for Northeast Oregon Stream Fishes. Doctoral dissertation. Oregon State University. Corvallis, Oregon.	
349.	11/02/2001	Additional Questions for the Peer Review Panel 11.2.01.	
350.	08/16/2001	E-mail to Geoffrey Poole, EPA, from John Risley, USGS, Subject: Inter annual temperature data.	
		Att. 1: Annual Variability Information.	
351.	08/13/2001	Multiple Lines of Evidence Module, 8/13/01 Draft.	
352.	08/13/2001	E-mail to Dale McCullough, CRITFC, from Don Essig, DEQ, Subject: Re: Inter-annual variability.	
353.	08/13/2001	E-mail to Don Essig, DEQ, from Dale McCullough, CRITFC, Subject: Re: Inter-annual variability.	
354.	08/02/2001	E-mail to Boli Essig, DEQ, from Bale McCullough, CRITPC, Subject: Re. Intel-allitud variability. E-mail to Geoffrey Poole, EPA, and 13 other recipients, from Sally Sauter, USGS, Subject: Smoltificationfrom Zaugg.	
		Att. 1: Effect of Temperature on Parr-Smolt Transformation in Pacific Salmonids.	

NO.	Date	Description	
355.	08/01/2001	WTCTW. 2001. Scientific Issues Relating to Temperature Criteria for Salmon, Trout, and Char Native to the Pacific Northwest.	
356.	07/24/2001	Smoltification. By Mark Hicks, Washington DOE.	
357.	07/24/2001	E-mail to Marianne Deppman, EPA, and 13 other recipients, from Mark Hicks, WDOE, Subject: Smoltification. Att. 1: Smoltification.	
358.	06/11/2001	E-mail to Geoffrey Poole, EPA, and 35 other recipients, from Don Essig, DEQ, Subject: Measurement & metrics, part 2. Att. 1: Graph of temperature metrics by Don Essig, Idaho DEQ.	
359.	06/11/2001	Metric comparison Idaho 06-01. [Excel document.]	
360.	05/24/2001	E-mail to Goeffrey Poole, EPA, and 16 other recipients, from Dale McCullough, CRITFC, Subject: levels of proof.	
361.	05/22/2001	Graph of Temperature Metrics by Don Essig, Idaho DEQ.	
362.	05/09/2001	Distribution of Temperature Approach to Water Temperature Criteria.	
363.	04/06/2001	E-mail to Geoffrey Poole, EPA, and 14 other recipients, from Don Essig, DEQ, Subject: Re: Agenda for April 11 Technical Meeting.	
		Att. 1: Thermal Potential Approach.	
364.	03/09/2001	Att. 2: Natural Physical Potential as an Approach to Temperature Criteria. E-mail to Cat Black, CRITFC, and 17 other recipients, from Dale McCullough, CRITFC, Subject: Re: Final Updated Fact Sheet.	
		Att. 1: Seven charts.	
365.	02/12/2001	E-mail to Geoffrey Poole, EPA, and 9 other recipients, from Christopher Mebane, DEQ, Subject: Re: Sustainable Ecosystems Inc.	
366.	XX/XX/2001	Figure 6 - Areas of spawning in the Methow River system. [Presented in Tech WG 2001]	
367.	12/01/2000	E-mail to Shelley Spalding, FWS, from Jason Dunham, USFS, Subject: Re: How Much?, it depends	
368.	10/17/2000	Letter to Sherri Johnson, EPA Contractor, from Jason Dunham, USFS, Re: Peer Review.	
369.	08/01/2000	Information on water temperature databases by John Risley, USGS.	
370.	07/07/2000	E-mail to Goeffrey Poole, EPA, and 12 other recipients, from Dale McCullough, CRITFC, Subject: spatial/temporal issues in the std.	
371.	05/28/2000	E-mail to Dale McCullough, CRITFC, and 9 other recipients, from Christopher Mebane, DEQ, Subject: Draft temp measurement issue discussion.	
		Att. 1: Issues Related to Temperature Measurement and Monitoring, May 25, 2000. [Att. 2: Missing]	
372.	06/23/1998	Rocky Reach Background Biology by Don Chapman.	
373.	[undated]	Figure: Life History - Productivity - Diversity, by Mobrand Consultants.	
374.	[undated]	Figure 3 and 4. SNTEMP information.	
375.	[undated]	System Potential: Is There a Role for Biology? Are There Different Levels of Resolution or "Filters" for Determining Criteria?	
376.	[undated]	Return to River 2000.	
377.	[undated]	Temperature lethal daily dose - by Mark Hicks Washington DOE.	
378.	[undated]	Washington Forests and Fish CWA Assurances.	

NO.	Date	Description	
379.	[undated]	Clearwater Graphs.	
380.	[undated]	Figures 1-5.	
381.	[undated]	List of references.	
382.	[undated]	System Potential Rewrite.	
383.	[undated]	dft Response to OFIC_WFPA comments.	
384.	[undated]	Annotated Bibliography: Information and Studies Relevant to Temperature, Salmonids, and Water Quality.	
385.	[undated]	Example of Different SLS Spatial Applications [author unknown].	
386.	[undated]	Temperature of Outflows at Hells Canyon Dam (current habitat) and Swan Falls Dam (historic habitat - Marsing Reach) [author unknown].	
387.	[undated]	Feedback on EPA's Proposed Framework for Temperature Guidance [author unknown].	
388.	[undated]	Distributional Thresholds Approach (Conservation Biology Emphasis).	

D. Scientific Literature

NO.	Date	Description
389.		Ebersole, J. L., W. J. Liss, and C. A. Frissell. 2001. Relationship between stream temperature, thermal refugia and rainbow trout Oncorhynchus mykiss abundance in arid-land streams in the northwestern United States. Ecology of Freshwater Fish 2001: 10: 1-10.
390.	09/01/1990	Methow and Okanogan Rivers Subbasin Salmon and Steelhead Production Plan - excerpts.

E. State of Oregon Documents

NO.	Date	Description	
391.	04/29/2003	E-mail to Robert C. Anderson, NMFS, and 14 other recipients, from Debra Sturdevant, DEQ, Subject: Final EPA Guidance. [EPA Final Guidance attached.]	
392.	10/30/2002	E-mail to John Palmer, EPA, and 13 other recipients, from Debra Sturdevant, DEQ, Subject: RE: Looking for a few good studies.	
393.	08/09/2002	Excel document - Average Temps Oregon 08-09-02 by ODEQ.xls	
394.	04/23/2002	E-mail to Robert C. Anderson, NMFS and 13 other recipients, from Debra Sturdevant, DEQ, Subject: Update and Status.	
		Att. 1: Draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: State of Oregon Comments on the Draft Guidance on State and Tribal Temperature Water Quality Standards, dated October 31, 2001	
395.	05/11/2001	Sub-Basin Temperature Management Plan Option (A combined biological threshold and thermal potential approach).	
396.	,	E-mail to Jeffrey Lockwood, NMFS, from Debra Sturdevant, DEQ, Subject: FW: My notes from the temperature peer review meeting.	
		Att. 1: Notes from the Regional Temperature Peer Review Meeting, February 13 and 14, at Oregon DEQ. (Chris Mebane)	
397.	05/07/1999	EPA Region 10 Temperature Criteria Standard Development Proposal: 14 April 1999 (DRAFT)	
398.	03/16/1999	Regional Temperature Standard Review and Development, Oregon State University.	

Attachment B

INDEX OF DOCUMENTS EXCLUDED FROM ADMINISTRATIVE RECORD

For National Marine Fisheries Service's February 24, 2004, Biological Opinion on EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen and Antidegradation Implementation Methods, Including Temperature Guidance Project

Northwest Environmental Advocates v. U.S. EPA et al., Civ. No. 05-1876 HA

Excluded from Biological Opinion Record

A. NMFS Documents

NO.	Date	Description	Reason for Excluding
1.	02/23/2004	E-mail to Robert C. Anderson, NMFS, and Jeffrey Lockwood, NMFS, from Melanie Rowland, NOAA GCNW, providing comments on draft biological opinion	Attorney-client communication, attorney work product, deliberative.
2,	02/23/2004	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, NMFS, Michael Tehan, NMFS, Cathy Tortorici, NMFS, and Russ Strach, NMFS, from Melanie Rowland, NOAA GCNW; e-mail chain between Rowland, Lockwood, and Anderson discussing additional revisions to portion of draft biological opinion.	Attorney-client communication, attorney work product, deliberative.
3,	02/23/2004	Draft passages for draft biological opinion.	Deliberative.
4,	02/20/2004	E-mail to Robert C. Anderson, NMFS, Michael Tehan, NMFS, Jeffrey Lockwood, NMFS, Russ Strach, NMFS, Cathy Tortorici, NMFS, and Melanie Rowland, NOAA GCNW, from Robert C. Anderson, NMFS, discussing take issues re draft ITS.	Attorney-client communication, deliberative.
5.	02/20/2004	E-mail to Melanie Rowland, NOAA GCNW, and Jeffrey Lockwood, NMFS, from Robert C. Anderson, NMFS, seeking comments on draft portion of biological opinion. Attachment: Draft section of biological opinion	Attorney-client communication, deliberative.
6.	02/19/2004	E-mail to Melanie Rowland, NOAA GCNW, Dru Keenan, EPA, Cathy Tortorici, NMFS, Robert C. Anderson, NMFS, John Palmer, EPA, from Jeffrey Lockwood, NMFS, discussing take issues re draft ITS and seeking legal advice re same.	Attorney-client communication, deliberative.
7.	02/19/2004	E-mail to Melanie Rowland, NOAA GCNW, Robert C. Anderson, NMFS, and Cathy Tortorici, NMFS, from Jeffrey Lockwood, NMFS, responding to e-mail from Rowland to Lockwood proving advice re take issues re draft ITS (includes previous 2/19/04 e-mail).	Attorney-client communication, attorney work product, deliberative.
8.	02/19/2004	E-mail to Robert C. Anderson, NMFS, Tracy Schaerer, NMFS, Michael Tehan, NMFS, David Mabe, NMFS, Russ Strach, NMFS, Melanie Rowland, NMFS Attorney, Office General Counsel Northwest (GCNW), cc: Betty Webb, NMFS, and Cathy Tortorici, NMFS, from Jeffrey Lockwood, NMFS, requesting legal and supervisor review of draft section of biop, including Att. 1: Integration and Synthesis of Effects.	Attorney-client communication; deliberative.
9.	02/18/2004	E-mail to Mike Crouse, NMFS, cc: David Mabe, NMFS, Cathy Tortorici, NMFS, Jeffrey Lockwood, NMFS, Russ Strach, NMFS, and Melanie Rowland, NMFS GCNW, from Michael Tehan, NMFS, responding to email from Lockwood to Tortorici and Tehan, cc: Gary Sims, NMFS, Ritchie Graves, NMFS, and Robert Anderson, NMFS; internal e-mail discussion re tribal request for consultation/issues re consistency between Idaho/Oregon standards.	Deliberative.
10.	02/17/2004	E-mail to Robert C. Anderson, NMFS, Cathy Tortorici, NMFS, Melanie Rowland, NOAA GCNW, and Thomas Hooper, NMFS, from Jeffrey Lockwood, NMFS, with draft portion of ITS, seeking comments.	Attorney-client communication, deliberative.
11.	02/17/2004	E-mail to Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, and Thomas Hooper, NMFS, from Melanie Rowland, NOAA GCNW, attaching comments on draft ITS.	Attorney-client communication, attorney work product, deliberative.
12.	02/17/2004	E-mail to Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, and Thomas Hooper, NMFS, from Melanie Rowland, NOAA GCNW, providing additional comments on draft ITS (attached).	Attorney-client communication, attorney work product, deliberative.
13.	02/17/2004	Draft passages on amount or extent of take for draft biological opinion.	Deliberative.

NO.	Date	Description	Reason for Excluding
14.	02/12/2004	E-mail to Melanie Rowland, NOAA GCNW, Jeffrey Lockwood, NMFS, Russ Strach, NMFS, and Cathy Tortorici, NMFS, from Mike Tehan, NMFS, responding to email from Rowland re letter to NMFS from Melissa Powers, Pacific Env. Advocacy Center, commenting on proposed action; also contains email chain from Lockwood to Rowland re substance of ITS.	Attorney-client communication and attorney work product.
15.	02/12/2004	E-mail to Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, and Russ Strach, NMFS, from Melanie Rowland, NOAA GCNW, containing legal advice re ITS.	Attorney-client communication, attorney work product.
16.	02/09/2004	Fax to Jeffrey Lockwood, NMFS, from Melanie Rowland, NOAA GCNW, containing handwritten comments on draft biop.	Attorney-client communication, attorney work product, deliberative.
17.	02/09/2004	E-mail to Jeffrey Lockwood, NMFS, and Robert C. Anderson, NMFS, from Melanie Rowland, NOAA GCNW, providing comments on portion of draft biological opinion.	Attorney-client communication, attorney work product, deliberative.
18.	02/09/2004	Attachment: Red-line comments on portion of draft biological opinion. E-mail to Jeffrey Lockwood, NMFS, from Melanie Rowland, NOAA GCNW, responding to e-mail from Lockwood to Rowland requesting review of portion of the biological opinion.	Attorney-client communication, attorney work product, deliberative.
19.	02/09/2004	E-mail to Jeffrey Lockwood, NMFS, and Robert C. Anderson, NMFS, from	Attorney-client communication, attorney work product.
20.	02/09/2004	E-mail to Melanie Rowland, NOAA GCNW, cc: Robert C. Anderson, NMFS, Michael Tehan, NMFS, Russ Strach, NMFS, Cathy Tortorici, NMFS, and Marc Liverman, NMFS, from Jeffrey Lockwood, NMFS, seeking comments on portion of draft biological opinion.	Attorney-client communication, attorney work product, deliberative.
21.	02/09/2004	Draft section on Integration and Synthesis of Effects for draft biological opinion.	Deliberative
22.	02/08/2004	E-mail to Jeffrey Lockwood, NMFS, and Robert C. Anderson, NMFS, from Melanie Rowland, NOAA GCNW, providing comments on draft biop.	Attorney-client communication, attorney work product, deliberative.
23.	02/08/2004	Draft Letter to Randall F. Smith, EPA from D. Robert Lohn, NMFS, Re: Biological Opinion on EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antigradation Implementation Methods. Att. 1: Endangered Species Act - Section 7 Consultation Biological Opinion & Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation: EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods.	Deliberative
24.	02/06/2004	Predecisional draft (redline) section of biop: Integration and Synthesis of Effects.	Deliberative
25.	02/05/2004	Draft Letter to Randall F. Smith, EPA from D. Robert Lohn, NMFS, Re: Biological Opinion on EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antigradation Implementation Methods. Att. 1: Endangered Species Act - Section 7 Consultation Biological Opinion & Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation: EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and	Deliberative
26.	02/02/2004	Antidegradation Implementation Methods. Draft Letter to Randall F. Smith, EPA from D. Robert Lohn, NMFS, Re: Biological Opinion on EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antigradation Implementation Methods. Att. 1: Endangered Species Act - Section 7 Consultation Biological Opinion &	Deliberative.
		Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation: EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods.	
27.	01/28/2004	Draft passages for draft biological opinion.	Deliberative.

NO.	Date	Description	Reason for Excluding
28.	01/25/2004	Pre-decisional draft section of biop re Intergravel Dissolved Oxygen OAR 340-041-0016(1)(a)(C).	Deliberative.
29.	01/09/2004	NMFS draft document/outline of suggested DEQ Conservation Measures.	Deliberative.
30.	12/30/2003	Draft Letter to Randall F. Smith, EPA from D. Robert Lohn, NMFS, Re: Biological Opinion on EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antigradation Implementation Methods. Att. 1: Endangered Species Act - Section 7 Consultation Biological Opinion &	Deliberative.
		Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation: EPA's Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation Implementation Methods.	
31.	12/18/2003	E-mail to Robert C. Anderson, NMFS, Melanie Rowland, NOAA GCNW, and Cathy Tortorici, NMFS, from Jeffrey Lockwood, NMFS, seeking legal review of draft portion of biological opinion. Attachment: Dec. 18, 2003 Predecisional Draft	Attorney-client communication, deliberative.
32.	12/18/2003	E-mail to Jeffrey Lockwood, NMFS, from Melanie Rowland, NOAA GCNW, responding to forwarded email from Marylou Soscia, EPA, to Dru Kennan, EPA, cc: Cathy Tortorici, NMFS, Elizabeth Materna, FWS, Jeff Kopf, EPA, Jeffrey Lockwood, NMFS, John Palmer, EPA, Kellie Kubena, EPA, Melanie Rowland, NOAA GCNW, Robert Anderson, NMFS, re funding issues.	Attorney-client communication, deliberative.
33.	12/17/2003	E-mail to Dru Keenan, EPA, Jeff Kopf, EPA, Elizabeth Materna, FWS, Robert C. Anderson, NMFS, John Palmer, EPA, Mary Lou Soscia, EPA, Kellie Kubena, EPA, Melanie Rowland, NOAA GCNW, and Cathy Tortorici, NMFS, from Jeffrey Lockwood, NMFS, also including email from Lockwood summarizing legal advice from Rowland and seeking comments re draft of conservation measures; Att. 1: Dec. 16, 2003 Re-draft of Conservation Measures by J. Lockwood.	Deliberative.
34.	12/16/2003	E-mail to Melanie Rowland, NOAA GCNW, Cathy Tortorici, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: seeking legal review of draft conservation measures. Attachments: (1) Dec. 16, 2003 Re-draft of conservation measures (redline strikeout), (2) Dec. 16, 2003 Re-draft of conservation measures.	Attorney-client communication, deliberative.
35.	12/10/2003	E-mail to Melanie Rowland, NOAA GCNW, Robert C. Anderson, NMFS, and Cathy Tortorici, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: Possible Conservation Measures, with rationale; contains email from Rowland to Lockwood re legal issues re draft conservation measures. Attachment: Pre-Decisional Draft EPA conservation measures with NOAA Fisheries draft analysis	Attorney-client communication, attorney work product, deliberative.
36.	12/10/2003		Deliberative.
37.	12/09/2003	E-mail to Mary Lou Soscia, EPA, cc: Cathy Tortorici, NMFS, Dru Keenan, EPA, Elizabeth Materna, FWS, John Palmer, EPA, Melanie Rowland, Noaa GCNW, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, predecisional draft/redraft of proposed EPA conservation measures.	Deliberative.
38.	12/03/2003	E-mail to Michael Tehan, NMFS, Cathy Tortorici, NMFS, cc: Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, discussing EPA reaction to Preliminary Draft List of Issues for DEQ Implementation Letter (attached e-mail from Lockwood to Mark Charles and Debra Sturdevant, Or. DEQ, (Contained in AR at No. 10).	Deliberative.
39.	11/21/2003	Predecisional draft, Provisions in Proposed Oregon DEQ Water Quality Criteria Needing Clarification or Interpretation (November 20, 2003 draft by J. Lockwood, NOAA Fisheries; November 21, 2003 responses from EPA).	Deliberative.

NO.	Date	Description	Reason for Excluding
40.	11/14/2003	E-Mail to Dru Keenan, EPA, cc: Elizabeth Materna, FWS, Robert C. Anderson, NMFS, Michael Tehan, NMFS, Cathy Tortorici, NMFS, and Melanie Rowland, NOAA GCNW, from Jeffrey Lockwood, summarizing potential consultation issues; Att. 1: Potential ESA and MSA Consultation Issues - EPA and DEQ Proposed Water Quality Standards, November 14, 2003.	Deliberative.
41.	11/13/2003	Predecisional draft staff comments on EPA/DEQ proposed rules, November 13, 2003 comments by J. Lockwood, NOAA Fisheries.	Deliberative.
42.	11/04/2003	E-mail to Jeffrey Lockwood, NMFS, cc: James Ruff, NMFS, and Lynne Krasnow, NMFS, from Ritchie Graves, NMFS. Internal NMFS discussion re e-mail from Debra Sturdevant, Or. DEQ, to John Palmer, EPA, Jeff Lockwood, NMFS, Dru Keenan, EPA, and Robert Anderson, NMFS, dated 11/4/03 (contained in AR at No. 172), re agreement to apply spawning for fall Chinook in Snake River.	
43.	10/03/2003	Comparison of continuous-temperature data and temperature modeling with proposed Oregon "colder-water salmon and steelhead trout rearing" beneficial use designations [with six zip map files]	Deliberative.
44.	09/10/2003	E-mail to Dru Keenan, EPA, John Palmer, EPA, cc: Robert C. Anderson, and Chris Mebane, NMFS, from Jeffrey Lockwood, NMFS, containing internal discussion re salmonid uses considered and comments on draft EPA preamble.	Deliberative.
45.	09/02/2003	E-mail to Dru Keenan, EPA, cc: Robert C. Anderson, NMFS, Chris Mebane, NMFS, and John Palmer, EPA, from Jeffrey Lockwood, NMFS, Subject: 16 vs. 18, discussion re process for gathering data to evaluate application of 16C criteria.	
46.	08/22/2003	Comments on Analysis of Effects for Chinook Salmon.	Deliberative
47.	08/06/2003	Map re Proposed 2003 Oregon Critical Period Fish Use Designations and Listed Steelhead Populations (non-extirpated) within the Interior Columbia Basin ESUs, by NOAA Fisheries, with handwritten notations.	Deliberative.
48.	07/22/2003	E-mail to Chris Mebane, NMFS, cc: Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, discussing assumptions of warming and cooling re spawning, responding to email from Mebane discussing tentative plan for mapping spawning designations.	Deliberative.
49.	07/22/2003	Email to Chris Mebane, NMFS, cc: Robert C. Anderson, NMFS, and John Palmer, EPA, from Jeffrey Lockwood, NMFS, internal discussion re spawning uses.	Deliberative.
50.	07/22/2003	E-mail to Robert C Anderson, NMFS, and Jeffrey Lockwood, NMFS, from Chris Mebane, NMFS, discussing tentative plan for mapping spawning designations (see 7/22/2003 entry above).	Deliberative.
51.	07/02/2003	Predecisional draft section of biological opinion: Biological Information and Critical Habitat, July 2, 2003 draft by R. Anderson [Species BRT.wpd]	Deliberative.
52.		Predecisional draft section of biological opinion: Draft of Status of Species, July 2, 2003 draft by R. Anderson [Species.wpd]	Deliberative.
53.		Predecisional draft section of biological opinion: Draft of Status of Species, July 2, 2003 draft by R. Anderson [Species Status.wpd]	Deliberative.
54.		Predecisional draft section of biological opinion: Environmental Baseline, July 2, 2003 draft by R. Anderson [Oregon Baseline.wpd]	Deliberative.
55.	07/02/2003	2, 2003 draft by R. Anderson [SW Oregon Baseline.wpd].	Deliberative.
56.	07/02/2003	Predecisional draft section of biological opinion: Environmental Baseline (Columbia River Basin), July 2, 2003 draft by J. Lockwood.	Deliberative.
57.	07/02/2003	Predecisional draft section of biological opinion: Environmental Baseline, July 2, 2003 draft by R. Anderson [Oregon State Baseline.wpd].	Deliberative.
58.		E-mail to Jeffrey Lockwood, NMFS, from Richard Domingue, NMFS, Subject: Re: language.	Deliberative.
59.	04/08/2003	E-mail to Melanie Rowland, NOAA GCNW, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, forwarding email from Dru Keenan, EPA, discussing use designation issue as to rearing and interpretation of NWEA decision.	Deliberative.
60.	04/07/2003	E-mail to Melanie Rowland, NMFS GCNW, Robert C. Anderson, NMFS, Paula Van Haagen, EPA, and Dru Keenan, EPA, from Jeffrey Lockwood, NMFS, requesting legal advice re interpretation of Court order.	Attorney-client communication.
61.	08/02/2002	Memorandum to Chris Torgersen, USGS, from Jeffrey Lockwood, NMFS, Subject: Request for presentation.	Deliberative.

03/212008

NO.	Date	Description	Reason for Excluding
62.	08/01/2002	E-mail to Bob Lohn, NMFS, Mike Crouse, NMFS, Russ Strach, NMFS, Jeffrey Lockwood, NMFS, and Patti Vandetta, NMFS, from Michael Tehan, NMFS, Subject: Temperature Project Briefing.	Deliberative.
63.	06/14/2002	E-mail to Dru Keenan, EPA, Sally Sauter, USGS, Geoffrey Poole, Cornell University, Russ Strach, NMFS, and Robert C. Anderson, NMFS, Subject: briefing for NMFS regional administrator.	Deliberative.
64.	06/13/2002	E-mail to Jeffrey Lockwood, NMFS, from Russ Strach, NMFS, Subject: per your request (discussing information for internal briefing for NMFS regional administrator).	Deliberative.
65.	[undated]	Draft memorandum to Bob Lohn, NMFS, from Jeffrey Lockwood, NMFS discussing addressing public comments on draft water temperature guidance (redline and handwritten notes).	Deliberative.
B. EP	A Documents		
NO.	Date	Description	Reason for Excluding
66.	02/23/2004	E-mail to Robert C. Anderson, NMFS, Cathy Tortorici, NMFS, Dru Keenan, EPA, Jeffrey Lockwood, NMFS, John Palmer, EPA, Melanie Rowland, NOAA GCNW, Michael Tehan, NMFS, Robert C. Anderson, NMFS, and Russ Strach, NMFS, from Jeff Kopf, EPA Assistant Regional Counsel providing comments (redline/strikeout) on draft ITS. Attachments: (1) Feb. 20, 2004 Predecisional draft (clean version), (2) Feb.	Attorney-client communication, attorney work product, deliberative.
67.	02/20/2004	20, 2004 Predecisional draft (redline version) E-mail to Jeffrey Lockwood, NMFS, Cathy Tortorici, NMFS, John Palmer, EPA, Melanie Rowland, NOAA GCNW, Robert C. Anderson, NMFS, and Jeff Kopf, EPA, from Dru Keenan, EPA, responding to 2/19/04 e-mail (above) from Lockwood to Rowland discussing take issues re ITS and seeking legal advice re same.	Attorney-client communication, deliberative.
68.	02/19/2004	E-mail to Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, John Palmer, EPA, and Jeff Kopf, EPA, from Dru Keenan, EPA, providing Keenan handwritten comments on predecisional draft section of biop/inicidental take statement.	Deliberative.
69.	02/13/2004	E-mail to Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, cc: Dru Keenan, EPA, John Palmer, EPA, Mary Lou Soscia, EPA, Adrianne Allen, EPA counsel, Keith Cohon, EPA, Mary Ellen Levine, EPA, and Kellie Kubena, EPA, from Jeff Kopf, EPA, containing draft suggestions for EFH section of biop.	Deliberative.
70.	02/12/2004	Fax to Dru Keenan, EPA, from Jeff Kopf, EPA Assistant Regional Counsel, Subject: Comments on draft NOAA Fisheries BO (contains hand-written comments on portion of draft biological opinion)	Attorney work product, deliberative.
71.	01/22/2004	E-mail to Robert C. Anderson, NMFS, Cathy Tortorici, NMFS, Elizabeth Materna, FWS, cc: Mary Lou Soscia, EPA, Dru Keenan, EPA, Jeff Kopf, EPA, and Steve Ellis, EPA, from John Palmer, EPA, containing proposed biop language re conservation measures and describing discussion with Melanie Rowland, NMFS counsel, re same.	Attorney work product, deliberative.
72.	01/13/2004	E-mail to Cathy Tortorici, NMFS, John Palmer, EPA, and Paula Van Haagen, EPA, from Mary Lou Soscia, EPA, containing internal discussion re status of consultation and issues.	Deliberative.
73.	11/18/2003	E-mail to Elizabeth Materna, FWS, Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, John Palmer, EPA, Keith Cohon, EPA, Adrianne Allen, EPA attorney, Marylou Soscia, EPA, Kellie Kubena, EPA, Jeff Kopf, EPA Assistant Regional Counsel, from Dru Keenan, EPA, containing notes from 11/17 call with Services on issues to be addressed to clarify Oregon rule and requesting comments re same.	Attorney-client communication, deliberative.
C. Ot	her Documen	ts	
NO.	Date	Description	Reason for Excluding
74	06/24/2003	E-mail to Jeffrey Lockwood, NMFS, from John Risley, USGS, Subject: RE: thermal models	Deliberative.

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NO.	Date	Description	Reason for Excluding
Exclu	Excluded from Temperature Guidance Record		

A. NMFS Documents

A. NIVI	NMFS Documents				
NO.	Date	Description	Reason for Excluding		
75.	04/15/2003	Draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, with redline/strikeout edits by J. Lockwood, Re: EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards, containing NMFS comments on Temperature Guidance.	Deliberative		
76.	04/11/2003	Final Draft of letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards, containing NMFS comments on Temperature Guidance.	Deliberative		
77.	04/09/2003	"Predecisional, Internal Deliberative Document"; Draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, with comments by J. Lockwood, Re: EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards, containing NMFS comments on Temperature Guidance. Encl. 1: Draft Recommendations for ESA and MSA Consultations on EPA approval of Water Temperature Standards.	Deliberative		
78.	04/09/2003	"Predecisional, Internal Deliberative Document"; draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, with redline edits, Re: EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards, containing NMFS comments on final draft of Temperature Guidance. Encl. 1: Draft Recommendations for ESA and MSA Consultations on EPA approval of Water Temperature Standards.	Deliberative		
79.	03/31/2003	"Predecisional, Internal Deliberative Documents"; Draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, with redline edits by Jeffrey Lockwood, Re: EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards, containing comments on final draft of Temperature Guidance. Encl. 1: Draft Recommendations for ESA and MSA Consultations on EPA	Deliberative		
80.	03/31/2003	approval of Water Temperature Standards. "Predecisional, Internal Deliberative Document, Attorney-Client Privileged"; Draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, with comments by Jeffrey Lockwood, Re: EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards, containing NMFS comments on Temperature Guidance. Encl. 1: Draft Recommendations for ESA and MSA Consultations on EPA approval of Water Temperature Standards.	Deliberative		
81.	03/31/2003	E-mail to John Palmer, EPA, cc: Russ Strach, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: protecting cold waters, containing discussion of draft NMFS comment letter on Temperature Guidance.	Deliberative		
82.	03/31/2003	E-mail to John Palmer, EPA, cc: Russ Strach, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: Moving forward, discussing comments on draft NMFS comment letter on Temperature Guidance.	Deliberative		
83.	03/31/2003	E-mail to Cathy Tortorici, NMFS, Robert C. Anderson, NMFS, Thomas	Attorney-Client, Work Product, Deliberative		

NO.	Date	Description	Reason for Excluding
84.	03/28/2003	E-mail to Bob Lohn, NMFS, Jeffrey Lockwood, NMFS, Russ Strach, NMFS, Mike Crouse, NMFS, and Joe Scordino, NMFS, from Melanie Rowland, NOAA GCNW, Subject: Re: [Fwd: 'temperature guidance letter']; response to email from Lohn to Rowland (6/13/02) providing legal advice re interplay of	Attorney-Client, Work Product, Deliberative
85.	03/27/2003	E-mail to Jeffrey Lockwood, NMFS, Russ Strach, NMFS, Robert C. Anderson, NFMS, Thomas Hooper, NMFS, Ed Murrell, NFMS, and Melanie Rowland, NMFS GCNW, from Cathy Tortorici, NMFS, Subject: My comments on point 1 and a suggestion, responding to 3/27/03 email from Lockwood to Strach, cc:	,
86.	03/27/2003	E-mail to Russ Strach, NMFS, cc: Robert C. Anderson, NMFS, Thomas Hooper, NMFS, Ed Murrell, NMFS, Melanie Rowland, NOAA GCNW, and Cathy Tortorici, NMFS, from Jeffrey Lockwood, NMFS, Subject: point 1 - temp. letter, suggesting revisions to draft NMFS comment letter on Temperature Guidance.	Attorney-Client, Deliberative
87.	03/27/2003	Draft Letter to John Iani, EPA, from NMFS, Re: Temperature Guidance, containing draft NMFS comments on Temperature Guidance.	Deliberative
88.	03/26/2003	E-mail to Russ Strach, NMFS, cc: Melanie Rowland, NOAA GCNW, and Mike Crouse, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: [Fwd: 'temperature guidance letter'], responding to email from Rowland to Lohn containing legal analysis re applicability of water quality standards and comments on draft NMFS comment letter on Temperature Guidance.	Attorney-Client, Work Product, Deliberative
89.	03/26/2003	E-mail to Ed Murrell, NMFS, Thomas Hooper, NMFS, and Robert C. Anderson, NMFS, from Jeff Lockwood, NMFS, Subject: [Fwd: 'temperature guidance letter'], containing additional discussion re revisions to draft NMFS comment letter on Temperature Guidance.	Deliberative
90.	03/25/2003	E-mail to Robert C. Anderson, NMFS, Ed Murrell, NMFS, and Thomas Hooper, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: 'temperature guidance letter'], fowarding draft NMFS comment letter on Temperature Guidance. Att. 1: Draft letter to John (Palmer), EPA, from unidentified author, commenting on draft Temperature Guidance.	Deliberative
91.	03/25/2003	E-mail to Bob Lohn, NMFS, Russ Strach, NMFS, Mike Crouse, NMFS, and Melanie Rowland, NOAA GCNW, from Jeffrey Lockwood, NMFS, Subject: Re: 'temperature guidance letter,' containing additional discussion re draft NMFS comment letter on Temperature Guidance.	Attorney-Client, Deliberative
92.	03/21/2003	E-mail to John Palmer, EPA, cc: Russ Strach, NMFS, Thomas Hooper, NMFS, Ed Murrell, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: warm conditions, containing internal discussion of portion of draft Temperature Guidance.	Deliberative
93.	03/20/2003	E-mail to Bob Lohn, NMFS, Mike Crouse, NMFS, and Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: EPA temperature project - 2 new paragraphs, seeking comments on proposed revisions to draft NMFS comment letter on Temperature Guidance.	Deliberative
94.	03/20/2003	E-mail to Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: new draft paragraphs, containing further discussion re proposed revisions to draft NMFS comment letter on Temperature Guidance.	Deliberative
95.	03/20/2003	E-mail to Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: new draft paragraphs, discussing propsoed revisions to draft NMFS comment letter on Temperature Guidance.	Deliberative
96.	03/20/2003	E-mail to Russ Strach, NMFS, Robert C. Anderson, NMFS, Ed Murrell, NMFS, Thomas Hooper, NMFS, John Palmer, EPA, cc: Mark Schneider, NMFS, from Jeffrey Lockwood, NMFS, Subject: new draft paragraphs, containing draft language for draft NMFS comment letter on Temperature Guidance.	Deliberative
97.	03/17/2003	E-mail to Russ Strach, NMFS, Robert C. Anderson, NMFS, cc: Thomas Hooper, NMFS, Ed Murrell, NMFS, Blane Bellerud, NMFS, and Brian Brown, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: Comment on temp guide], forwarding email from Walt Dickhoff, NMFS to Bob Lohn, NMFS, cc: NMFS staff, providing comments on temperature guidance (see 3/14/03 email from Dickhoff to Kratz et al.).	Deliberative

NO.	Date	Description	Reason for Excluding
98.	03/17/2003	E-mail to John Palmer, EPA, Stephen Zylstra, FWS, Russ Strach, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: Draft Letters, forwarding draft NMFS comment letter on Temperature Guidance for review and comment.	Deliberative
		Att. 1: "Predecisional, Internal Deliberative Document, Attorney-Client Privileged"; Draft letter to John Iani, EPA, from D. Robert Lohn, Re: October 10, 2002, draft EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards. (March 13, 2003, comments by J. Lockwood), containing draft NMFS comments on Temperature Guidance.	
99.	03/17/2003	E-mail to Bob Lohn, NMFS, Patti Vandeta, NMFS, Russ Strach, NMFS, Mike Crouse, NMFS, Michael Tehan, NMFS and Melanie Rowland, NOAA GCNW, from Jeffrey Lockwood, NMFS, re draft comment letter for temperature guidance, forwarding draft comment letter for review and internal discussion.	Attorney-Client, Deliberative
		Att.1: "Predecisional, Internal Deliberative Document"; Draft letter to John lani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002, draft EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards (March 14, 2003 comments by J. Lockwood), containing draft NMFS comments on Temperature Guidance.	
100.	03/14/2003	E-mail to Walt Dickhoff, NMFS, and Kim Kratz, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: Review of temperature guidance, responding to 3/14/03 email from Dickhoff to Kratz et al., containing internal discussion re temperature guidance.	Deliberative
101.	03/13/2003	"Predecisional, Internal Deliberative Document, Attorney-Client Privileged"; Draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002, draft EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards, containing draft NMFS comments on Temperature Guidance (including redline/strikethrough comments). Encl. 1: "Predecisional, Internal Deliberative Document, Attorney-Client Privileged"; draft NMFS recommendations for ESA and MSA Consultations on EPA approval of Water Temperature Standards.	Deliberative
102.	03/13/2003	E-mail to Melanie Rowland, NOAA GCNW, cc: Russ Strach, NMFS, Robert C. Anderson, NMFS, Ed Murrell, NMFS, Thomas Hooper, NMFS, and Michael Tehan, NMFS, from Jeffrey Lockwood, NMFS, re draft comment letter, seeking legal review of draft NMFS comment letter on Temperature Guidance. Att. 1: "Predecisional, Internal Deliberative Document, Attorney-Client Privileged"; Draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re:	Attorney-Client, Deliberative
103.	03/13/2003	October 10, 2002, draft EPA Region 10 guidance for Pacific Northwest state E-mail to Jeffrey Lockwood, NMFS, cc: Russ Strach, NMFS, Thomas Hooper, NMFS, and Robert Anderson, NMFS, from Melanie Rowland, NOAA GCNW, re rewrite of 2 paragraphs, responding to 3/13/03 email from Lockwood with revised paragraphs for draft NMFS comment letter.	Attorney-Client, Work Product, Deliberative
104.	03/13/2003	E-mail to Melanie Rowland, NOAA GCNW, Russ Strach, NMFS, cc: Thomas Hooper, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, re rewrite of 2 paragraphs, containing revisions to draft NMFS comment letter on Temperature Guidance.	Attorney-Client, Deliberative
105.	03/12/2003	E-mail to Melanie Rowland, NOAA GCNW, Michael Tehan, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: your copy of memo to science center, fowarding attachment. Att. 1: Memorandum to Dr. Walton Dickhoff, NMFS, from Jeffrey Lockwood, NMFS, Subject: EPA Region 10 guidance for Pacific Northwest states and tribal temperature water quality standards, providing information and seeking	Attorney-Client, Deliberative
		input re temperature effects/food availability.	

NO.	Date	Description	Reason for Excluding
106.	03/12/2003	E-mail to Walton Dickhoff, NMFS, from Jeffrey Lockwood, NMFS, Subject: EPA Regional Water Temperature Guidance Project, forwarding attachments. Att. 1: Memorandum to Dr. Walton Dickhoff, NMFS, from Jeffrey Lockwood, NMFS, Subject: EPA Region 10 guidance for Pacific Northwest states and tribal temperature water quality standards, providing information and seeking input re temperature effects/food availability. Att. 2: EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards, March 11, 2003 Draft.	Deliberative
107.	03/12/2003	Memorandum to Walton Dickhoff, NMFS, from Jeffrey Lockwood, NMFS, Subject: EPA Region 10 guidance for Pacific Northwest states and tribal temperature water quality standards, providing information and seeking input	Deliberative
108.	03/12/2003	re temperature effects/food availability. Memorandum to Robert Lohn, NMFS, from Jeffrey Lockwood, NMFS, re March 12, 2003 meeting to discuss NOAA Fisheries' comment letter on EPA Regional Water Temperature Criteria Guidance, summarizing status of issues needing resolution.	Deliberative
109.	03/12/2003	E-mail to Bob Lohn, NMFS, Mike Crouse, NMFS, Russ Strach, NMFS, Melanie Rowland, NOAA GCNW, Robert C. Anderson, NMFS, and Michael Tehan, NMFS, from Jeffrey Lockwood, NMFS, Subject: CORRECTION: briefing material for 3/12 temperature meeting, re-forwarding briefing materials (see 3/11/03 email from Lockwood to Lohn). Att. 1: Memorandum to Robert Lohn, NMFS, from Jeffrey Lockwood, NMFS, Subject: Briefing for March 12, 2003 meeting to discuss NOAA Fisheries' endorsement letter for EPA Regional Water Temperature Criteria Guidance, summarizing status of issues needing resolution.	Attorney-Client, Deliberative
110.	03/12/2003	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, NMFS, from Thomas Hooper, NMFS, Subject: Re: briefing material for 3/12 temperature meeting, responding to 3/11/02 email from Lockwood to Lohn re briefing. Att. 1: Draft letter to Tom Fitzsimmons, Washington Department of Ecology, from D. Robert, Lohn, NMFS, Re: Comments on Proposed Changes to the State Surface Water Quality Standards.	Deliberative
111.	03/12/2003	E-mail to John Palmer, EPA, Robert C. Anderson, NMFS, and Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: de minimus, discussing definition of "de minimus."	Deliberative
112.	03/11/2003	E-mail to Bob Lohn, NMFS, Mike Crouse, NMFS, Russ Strach, NMFS, Melanie Rowland, NOAA GCNW, cc: Robert C. Anderson, NMFS, and Michael Tehan, NMFS, from Jeffrey Lockwood, NMFS, Subject: briefing material for 3/12 temperature meeting, forwarding briefing materials re internal NMFS meeting to discuss draft NMFS comment letter on Temperature Guidance. Att. 1: Draft briefing material document including summary of comments on 10/10/02 draft of Temperature Guidance.	Attorney-Client, Deliberative
113.	03/11/2003	E-mail to Stephen Zylstra, FWS, cc: Russ Strach, NMFS, and Robert C. Anderson, NFMS, from Jeffrey Lockwood, NMFS, Subject: Re: Assurance letter for EPA Regional Temperature Criteria Guidance, discussing Services' draft comment letters re Temperature Guidance and repeating legal advice from Melanie Rowland, NOAA GCNW, re same.	Attorney-Client, Deliberative
114.	12/10/2002		Attorney-Client, Deliberative

NO.	Date	Description	Reason for Excluding
115.	12/04/2002	E-mail to John Palmer, EPA, Russ, Strach, NMFS, Robert C. Anderson, NFMS, Dru Keenan, EPA, and Melanie Rowland, NOAA GCNW, from Jeffrey Lockwood, NMFS, Subject: Re: [Fwd: Electronic version of temp comments], containing legal comments re draft NMFS comment letter.	Attorney-Client, Deliberative
116.	11/25/2002	E-mail to Russ Strach, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: temperature project letter], responding to 11/25 Lockwood/Rowland email exchange re comments on draft NMFS comment letter.	Deliberative
117.	11/25/2002	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, NMFS, and Russ Strach, NMFS, from Melanie Rowland, NOAA GCNW, Subject: Re: temperature project letter, responding to 11/25 Lockwood email seeking comments on draft NMFS comment letter.	Attorney-Client, Deliberative
118.	11/25/2002	E-mail to Melanie Rowland, NOAA GCNW, Robert C. Anderson, NMFS, and Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: temperature project letter, seeking legal comments on revised draft NMFS comment letter on Temperature Guidance. Att. 1: "Predecisional Draft - 11-22-02 - Do Not Release"; draft letter to John lani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002 Draft EPA Region 10 Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards, containing NMFS comments on Temperature Guidance (11/22/02 draft, includes Rowland comments).	Attorney-Client, Deliberative
119.	11/22/2002	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, NMFS, from Russ Strach, NMFS, Subject: Re: here is highlight language, providing additional comments re proposed revisions to NMFS comment letter on draft Temperature Guidance.	Deliberative
120.	11/22/2002	E-mail to Russ Strach, NMFS, cc: Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: here is highlight language, containign proposed revisions to NMFS comment letter on draft Temperature Guidance.	Deliberative
121.	11/20/2002	E-mail to David Arthaud, NMFS, Rachel Friedman, NMFS, Chris Looney, NMFS, Robert C. Anderson, NMFS, and Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: water temperature project, seeking review/comment on draft NMFS comment letter. Att. 1: "Draft - Incomplete - Do Not Cite or Distribute"; draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002 Draft EPA Region 10 Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards (Revised: November 20, 2002; Printed: March 13, 2008), containing NMFS draft comments on Temperature Guidance. Att. 2: Draft EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards, 2nd Public Review Draft, October 10, 2002.	Deliberative
122.	11/20/2002	E-mail to Melanie Rowland, NOAA, cc: Russ Strach, NMFS, Robert C. Anderson, NMFS, Rachel Friedman, NMFS, Chris Looney, and Marc Liverman, NMFS, from Jeffrey Lockwood, NMFS, Subject: [Fwd: temp guidance review], seeking legal review/comment on draft NMFS comment letter on Temperature Guidance. Att. 1: "Draft - Incomplete - Do Not Cite or Distribute"; draft letter to John Iani EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002 Draft EPA Region 10 Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards (Revised: November 20, 2002; Printed: March 13, 2008), containing draft NMFS comments on Temperature Guidance.	Attorney-Client, Deliberative
123	11/18/2002	E-mail to Rachel Friedman, NMFS, cc: Robert C. Anderson, NMFS, Chris Looney, NMFS, Thomas Hooper, NMFS, and Russ Strach, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: next draft temperature comments, responding to and providing additional comments re 11/15/02 email from Friedman to Lockwood re draft temperature comments.	Deliberative

NO.	Date	Description	Reason for Excluding
124.	11/15/2002	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, NMFS, Chris Looney, NMFS, and Thomas Hooper, NMFS, from Rachel Friedman, NMFS, Subject: Re: next draft temperature comments, responding to and providing comments re 11/15/02 email from Lockwood to Anderson re revisions to draft NMFS comment letter.	Deliberative
125.	11/15/2002	E-mail to Robert C. Anderson, NMFS, cc: Rachel Friedman, NMFS, and Chris Looney, NMFS, from Jeffrey Lockwood, NMFS, Subject: next draft temperature comments, providing revisions to and comments on draft NMFS comment letter. Att. 1: "Draft - Incomplete - Do Not Cite or Distribute"; draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002 Draft EPA Region 10 Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards (Revised: November 15, 2002; Printed: March 13, 2008), containing draft NMFS comments on Temperature Guidance.	Deliberative
126.	11/12/2002	E-mail to Robert C. Anderson, NMFS, from Rachel Friedman, NMFS, Subject: more comments on the EPA document. Att. 1: Draft comments on EPA's 9/10/2002 draft Guidance for Pacific	Deliberative
127.	11/06/2002	Northwest State and Tribal Temperature Water Quality Standards E-mail to Russ Strach, NMFS, cc: Robert Anderson, NMFS, from Jeffrey	Deliberative
121.	11/00/2002	Lockwood, NMFS, re review of temp section, responding to 10/10 email re draft section of temperature guidance, providing additional discussion.	Deliberative
128.	11/06/2002	E-mail to Stephen Zylstra, FWS, Elizabeth Materna, FWS, and Shelley Spalding, FWS, from Robert C. Anderson, NMFS, Subject: Temperature Guidance, forwarding draft copy of comments on NMFS comment letter.	Deliberative
		Att. 1: "Draft"; draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002 Draft EPA Region 10 Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards, containing draft NMFS comments on Temperature Guidance.	
129.	11/04/2002	E-mail to Robert C. Anderson, NMFS, cc: Thomas Hooper, NMFS, and Jeffrey Lockwood, NMFS, from Rachel Friedman, NMFS, Subject: comments on EPA draft temperature guidance, responding to and providing additional comments re 10/30/02 email from Anderson to Lockwood, cc: NMFS staff.	Deliberative
130.	10/30/2002	E-mail to Jeffrey Lockwood, NMFS, Russ Strach, NMFS, cc: Chris Looney, NMFS, Rachel Friedman, NMFS, and Ed Murrell, NMFS, from Robert C. Anderson, NMFS, Subject: Comments on EPA Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards, forwarding and requesting commetns on draft NMFS comment letter.	Deliberative
		Att. 1: "Draft"; draft Letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: October 10, 2002 Draft EPA Region 10 Guidance for Pacific Northwest States and Tribal Temperature Water Quality Standards, containing draft NMFS comments on Temperature Guidance.	
131.	10/10/2002	E-mail to John Palmer, EPA, Stephen Zylstra, FWS, and Robert C. Anderson, NMFS, from Russ Strach, NMFS, re review of temp section, responding to 10/10/02 email from Strach to Lockwood and providing comments.	Deliberative
132.	10/10/2002	E-mail to Jeffrey Lockwood, NMFS, and Robert C. Anderson, NMFS, from Russ Strach, NMFS, re review of temp section, forwarding 10/10 email from Palmer to Strach and Stephen Zylstra, FWS, containing draft section of Temperature Guidance for discussion.	Deliberative
133.	10/03/2002	E-mail to John Palmer, EPA, cc: Robert C. Anderson, NMFS, and Dru Keenan, EPA, re: Do Not Release - Preliminary Comments on 9/30 draft.	Deliberative
		1	

NO.	Date	Description	Reason for Excluding
134.	09/04/2002	E-mail to Shelly Spalding, FWS, cc: Elizabeth Materna, FWS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: lawsuit and NMFS letter, discussing issues re cold water refugia and preliminary temperature monitoring data and forwarding FWS comments on second draft of Temperature Guidance.	Deliberative
		Att. 1: Memorandum to Dru Keenan, EPA, from Jeffrey Lockwood, NMFS, Subject: Comments on the EPA document Major Decisions Regarding the Draft Temperature Guidance (August 5, 2002).	
135.	08/13/2002	E-mail to Jeffrey Lockwood, NMFS, Robert C. Anderson, NMFS, Russ Strach, NMFS, Rachel Friedman, NMFS, and Ed Murrell, NMFS, from Melanie Rowland, NOAA GCNW, Subject: Re: beneficial uses, responding to request for legal advice (see 8/9/02 email from Lockwood to Rowland).	Attorney-Client, Work Product, Deliberative
136.	08/09/2002	Email to Melanie Rowland, NOAA GCNW, Robert C Anderson, NMFS, Russ Strach, NMFS, Rachel Friedman, NMFS, and Ed Murrell, NMFS, from Jeffrey Lockwood, NMFS, Subject: beneficial uses, seeking legal advice re ESA/CWA scope of authorities re beneficial use designations.	Attorney-Client, Deliberative
137.	08/02/2002	E-mail to Robert C. Anderson, NFMS, cc: Russ Strach, NMFS, Jeffrey Lockwood, NMFS, Rachel Friedman, NMFS, from Ed Murrell, NMFS, Subject: Re: Regional Temperature Project Issues, responding to 7/31 email from Anderson to Strach, discussing draft Temperature Guidance issues.	Deliberative
138.	07/31/2002	E-mail to Russ Strach, NMFS, cc: Jeffrey Lockwood, NMFS, Rachel Friedman, NMFS, and Ed Murrell, NMFS, from Robert C. Anderson, NMFS, Subject: Regional Temperature Project Issues, discussing comments on draft Temperature Guidance issues.	Deliberative
139.	07/24/2002	Draft memorandum to Bob Lohn from Russ Strach on cold water refugia [with redline/strikeout]	Deliberative
140.	07/11/2002	E-mail to Rachel Friedman, NMFS, Ed Murrell, NMFS, and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, Subject: Re: Comments on EPA's draft regional temp. criteria, forwarding memorandum containing comments. Att. 1: Draft Memorandum to John Palmer, EPA, from Russ Strach, NMFS, Subject: Reply to your request for comments on the June 18, 2002 Draft Region 10 Guidance for State and Tribal Temperature Water Quality Standards, providing comments on draft Temperature Guidance.	Deliberative
141.	07/10/2002	Email to Russ Strach, NMFS, cc: Robert C. Anderson, NMFS, and Rachel Friedman, NMFS, from Jeffrey Lockwood, NMFS, forwarding final temperature comment memo. Att. 1: Draft Memorandum to John Palmer, EPA, from Russ Strach, NMFS, Subject: Reply to your request for comments on the June 18, 2002 Draft Region 10 Guidance for State and Tribal Temperature Water Quality Standards, providing comments on draft Temperature Guidance.	Deliberative
142.	06/13/2002	E-mail to Jeffrey Lockwood, NMFS, from Russ Strach, NMFS, Subject: per your request, containing notes re temperature issues.	Deliberative
143.	05/15/2002	E-mail to Cathy Tortorici and Robert C. Anderson, NMFS, from Jeffrey Lockwood, NMFS, forwarding email to Bob Lohn, NMFS, Russ Strach, NMFS, Jeffrey Lockwood, NMFS, Mike Crouse, NMFS, cc: Eileen Cooney, NOAA GCNY, from Melanie Rowland, NOAA GCNW, Subject: Status of Oregon temperature standards case, providing litigation update and legal advice re consultation schedule.	Attorney-Client, Deliberative
144.	04/09/2002	"Predecisional, Internal Deliberative Document"; draft letter to John Iani, EPA, from D. Robert Lohn, NMFS, Re: October, 2001 Draft EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards, containing NMFS comments on Temperature Guidance. Att. 1: PREDECISIONAL DRAFT Comments on Public Review Draft Guidance For State and Tribal Temperature Water Quality Standards Northwest Region, National Marine Fisheries Service.	Deliberative

NO.	Date	Description	Reason for Excluding
145.	03/28/2002	Draft table entitled "Water Temperature Effects on Salmon and Steelhead Trout," author unidentified.	Deliberative
146.	03/25/2002	Draft letter to Randy Smith, EPA, from Michael Crouse, NMFS, providing comments on 10/01 draft of Temperature Guidance. Att. 1: Draft of NMFS comments on Public Review Draft Guidance For State and Tribal Temperature Water Quality Standards National Marine Fisheries	Deliberative
147.	03/22/2002	Service, Northwest Region. Notes by unidentified author re ground water exchange/cold water refugia.	Deliberative
147.	00/22/2002	Troces by unidentified dutifor to ground water exchange, oold water rollagia.	Bellberative
148.	03/22/2002	Draft letter to Randy Smith, EPA, from Michael Crouse, NMFS, providing comments on 10/01 draft of Temperature Guidance. Att. 1: Draft of comments on Public Review Draft Guidance For State and Tribal Temperature Water Quality Standards National Marine Fisheries Service, Northwest Region.	Deliberative
149.	01/16/2002	Draft letter to Randy Smith, EPA, from Cynthia Barry, FWS, and Michael Crouse, NMFS, Re: Comments on draft temperature guidance.	Deliberative
150.	12/26/2001	Memorandum to Russ Strach, NMFS, Rachel Friedman, NMFS, and Ed Murrell, NMFS, from Jeffrey Lockwood, NMFS, Subject: December 20, 2001 meeting of Policy Workgroup for EPA temperature project, containing internal summary of pre-meeting of Services and Policy Workgroup and discussing policy issues re same.	Deliberative
151.	12/26/2001	E-mail to Ed Murrell, NMFS, Russ Strach, NMFS, and Rachel Friedman, NMFS, from Jeffrey Lockwood, NMFS, Subject: EPA Temp. Proj., Policy Wkgrp Mtg 12-20-01, attaching memorandum. Att. 1: Memorandum to Russ Strach, Rachel Friedman, and Ed Murrell, from Jeffrey Lockwood, Subject: December 20, 2001 meeting of Policy Workgroup for EPA temperature project (see entry above).	Deliberative
152.	11/15/2001	E-mail to Jeffrey Lockwood, NMFS, and Russ Strach, NMFS, from Rachel Friedman, NMFS, Subject: Comments on USFWS letter; internal discussion re comments on draft NMFS comment letter on Temperature Guidance.	Deliberative
153.	10/01/2001	Jeff Lockwood's comments on draft flip chart notes from September 26, 2001 Technical Workgroup Meeting.	Deliberative
154.	07/18/2001	Draft Table of Temperature Guidance Options, unidentified author.	Deliberative

B. EPA Documents

NO.	Date	Description	Reason for Excluding
155.	03/31/2003	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, and Russ Strach, NMFS, from John Palmer, EPA, Subject: Re: Moving forward, responding to 3/31 email from Lockwood to Palmer discussing comments on draft NMFS comment letter on Temperature Guidance.	Deliberative
156.	03/26/2003	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, NMFS, Russ Strach, NMFS, and Stephen Zylstra, FWS, from John Palmer, EPA, Subject: Draft NMFS letter, containing comments on draft NMFS comment letter. Att. 1: "Predecisional, Internal Deliberative Document, Attorney-Client Privileged"; draft letter to John Iani, EPA, from D. Robert Lohn, Re: October 10, 2002, draft EPA Region 10 guidance for Pacific Northwest state and tribal temperature water quality standards. (March 13, 2003, redline/strikethrough comments by J. Lockwood)	Deliberative
157.	03/24/2003	E-mail to Jeffrey Lockwood, NMFS, cc: Ed Murrell, NMFS, Robert C. Anderson, NMFS, Russ Strach, NMFS, and Thomas Hooper, NMFS, from John Palmer, EPA, Subject: Re: warm conditions, responding to 3/21/03 email from Lockwood to Palmer discussion portion of draft Temperature Guidance.	Deliberative

NO.	Date	Description	Reason for Excluding
158.	03/19/2003	E-mail to Jeffrey Lockwood, NMFS, from John Palmer, EPA, Subject: Re: warm conditions; email discussion re TMDLs/Temperature Guidance.	Deliberative
159.	03/12/2003	E-mail to Jeffrey Lockwood, NMFS, cc: Robert C. Anderson, NMFS, and Russ Strach, NMFS, from John Palmer, EPA, Subject: Re: de minimus, discussing definition of "de minimus" and responding to 3/12/03 email from Lockwood to Palmer re same.	Deliberative
160.	03/11/2003	E-mail to Russ Strach, NMFS, Stephen Zylstra, FWS, Jeffrey Lockwood, NMFS, Elizabeth Materna, FWS, Shelley Spalding, FWS, and Jim Muck, FWS, from John Palmer, EPA, Subject: Final Draft of Temp Guidance. Att. 1: EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards (March 11, 2003 Draft)	Deliberative
161.	02/26/2003	E-mail to Jeffrey Lockwood, NMFS, from John Palmer, EPA, Subject: Re: temperature project, discussing rewrite of Temperature Guidance sections re use designations. Att. 1: Possible edits to two different sections of the guidance - 2/26/03 (redline strikeout).	Deliberative
162.	06/13/2002	E-mail to Jeffrey Lockwood, NMFS, from Dru Keenan, EPA, Subject: Re: [Fwd: per your request], continuing email discussion re temperature issues; email chain includes emial from Lockwood to Keenan (6/13/02) and from Strach to Lockwood (6/13/02) re temperature issues.	Deliberative
163.	03/21/2002	EPA's Temperature Guidance - NMFS, EPA, and FWS Discussion, March 21, 2002, by unidentified author, summarizing elements of draft Temperature Guidance and next steps.	Deliberative
164.	01/05/2000	E-mail to Jeffrey Lockwood, NMFS, from Dru Keenan, EPA, Subject: Re: Meeting Notes - Temp. Tech. Comm., responding to email from Lockwood to Keenan and NMFS staff discussing composition of workgroups.	Deliberative